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COMPONENTS



Manufacturer of Optocouplers / Optoisolators

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COMPONENTS



Welcome to the **Isocom Components** Shortform Catalogue

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About Isocom Components

Isocom Components has been a leading supplier of infrared optoelectronic devices for over 25 years with product families including all popular commercial optocoupler industry standard types including many no longer supplied by other manufacturers. We also offer special parametric selections to meet customer's specific circuit design requirements.

Isocom Components undertakes final assembly, marking, lead forming, testing and quality control at its production facility in the UK. Original components are sourced from world class approved suppliers in the Far East and elsewhere to ensure cost competitiveness and the very high quality standards.

We offer the shortest manufacturing lead times in the world for many parts and are proud of our fast turnaround capability whilst maintaining excellent product quality.

Why settle for lengthy lead times when we can deliver your components at a time when you need them ?

For all the latest news and new product offerings
please visit our website at :

www.isocom.com



Optocouplers

Why use an Optocoupler?

Optocouplers provide a low cost, space efficient, easy to use solution to high voltage isolation requirements. With careful PCB design the input can be electronically isolated from the output stage for up to 7,500 volts peak differential.

Which optocoupler to choose?

For those new to optocouplers the array of varieties may seem bewildering but by considering the specific application the right optocoupler can usually be selected easily.

Transistor

Transistor optocouplers can be used in most circumstances. If the base lead of the output transistor is not required in the circuit then the packages with no base lead connection provide additional protection against noise. The special dual and quad packages provide excellent PCB space savings where several optocouplers are required on the same circuit board.

AC Input

AC input devices, as the name implies, switch on the output transistor when an AC voltage (or a DC voltage of either polarity) is applied to the input. A typical application of this device is to detect the presence, or lack of, an AC voltage.

Darlington

Where high gain is required a darlington pair output device can provide up to 100% Current Transfer Ratio (CTR).

Schmitt Trigger

Where hysteresis control is needed together with a degree of speed, the Schmitt trigger devices provide an ideal solution.

Triac

Triac optocouplers provide control of AC voltages. For very high current applications, Isocom Components' Triac optocouplers can be used to control an external Power Triac.

IGBT Octocoupler

Isocom's newly developed ICPL3120 incorporates an infrared emitting diode optically coupled to an integrated circuit with a Power Output stage. It is suited for driving power IGBT's and MOSFETS in motor control applications.

Mini Flat Packages

A range of space saving optocouplers with various outputs including Zero Crossing Triacs and Random Phase Triacs.

Half Pitch Packages

A range of super small devices with both AC & DC inputs coupled with a phototransistor output.

High Speed

A range of industry standard High Speed optocouplers with data rates in excess of 10Mbits/sec.

Solid State Relays (PhotoMOS)

A range of Photo MOSFET optocouplers in 1 Form A configuration. Suitable for controls and data transmission in industrial controls and meter reading.

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4 Pin DIL & SMD Optocouplers

Transistor Output									
Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} $I_R=10\mu\text{A}$ Min (V)	BV_{CEO} $I_C=0.5\text{mA}$ Min (V)	$I_{CEO}(\text{Dark})$ $V_{CE}=20\text{V}$ Max (nA)	$V_{CE}(\text{SAT})$ $I_F=8\text{mA}$ $I_C=2.4\text{mA}$ Max (V)	
ISP321-1	Single channel Optocoupler with a Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	6	80	100	0.4	
ISP521-1		50-600				55			
ISP621-1		50-600				35			0.2($I_F=20\text{mA}$) ($I_C=1\text{mA}$)
ISP817		50-600				55			0.4($I_F=1\text{mA}$) ($I_C=0.5\text{mA}$)
ISP624-1		100-1200 ¹				80			0.3($I_F=10\text{mA}$) ($I_C=2\text{mA}$)
PS2501-1		80-600							
SFH615A-1		40-80/13 ($I_F=10\text{mA}/1\text{mA}$)				70	50 ($V_{CE}=10\text{V}$)	0.4($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)	
SFH615A-2		63-125/22 ($I_F=10\text{mA}/1\text{mA}$)					100 ($V_{CE}=10\text{V}$)		
SFH615A-3		100-200/34 ($I_F=10\text{mA}/1\text{mA}$)					50 ($V_{CE}=10\text{V}$)		
SFH615A-4		160-320/56 ($I_F=10\text{mA}/1\text{mA}$)					100 ($V_{CE}=10\text{V}$)		
SFH617A-1		40-80/13 ($I_F=10\text{mA}/1\text{mA}$)							
SFH617A-2		63-125/22 ($I_F=10\text{mA}/1\text{mA}$)							
SFH617A-3		100-200/34 ($I_F=10\text{mA}/1\text{mA}$)				55	50 ($V_{CE}=10\text{V}$)	0.4($I_F=1\text{mA}$) ($I_C=0.32\text{mA}$)	
SFH617A-4		160-320/56 ($I_F=10\text{mA}/1\text{mA}$)						0.4($I_F=1\text{mA}$) ($I_C=0.5\text{mA}$)	
SFH618A-2		63-125 ¹					100 ($V_{CE}=10\text{V}$)	0.4($I_F=1\text{mA}$) ($I_C=0.8\text{mA}$)	
SFH618A-3		100-200 ¹						0.4($I_F=1\text{mA}$) ($I_C=1.25\text{mA}$)	
SFH618A-4		160-320 ¹						0.4($I_F=5\text{mA}$) ($I_C=1\text{mA}$)	
SFH618A-5		250-500 ¹							
TIL191		20				35	100 ($V_{CE}=10\text{V}$)	0.4	
TIL191A		50							
TIL191B		100							
TLP321		50-600				80			
TLP521		50-600				55			
TLP621		50-600				0.4($I_F=1\text{mA}$) ($I_C=0.5\text{mA}$)			
TLP624		100-1200 ¹							

Note 1 Test Condition: $I_F = 1\text{mA}$ $V_{CE} = 0.5\text{V}$

AC Input								
Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
ISP620-1	Single channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	40-125 ¹	7.5(pk) 5.3(rms)	50mA	1.4	55 ($I_C = 0.5\text{mA}$)	100 ($V_{CE} = 24\text{V}$)	0.4($I_F = \pm 8\text{mA}$) ($I_C = 2.4\text{mA}$)
ISP626-1		100 ² 50 ³						0.4($I_F = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)
ISP814		20-300 ⁴				35	100	0.2($I_F = \pm 20\text{mA}$) ($I_C = 1\text{mA}$)
ISP814-1		80 ⁵				70		0.4($I_F = \pm 1\text{mA}$) ($I_C = 0.8\text{mA}$)
ISP814-2		/40/80 ⁵						0.4($I_F = \pm 0.5\text{mA}$) ($I_C = 0.2\text{mA}$)
ISP814-3		20/40/80 ⁵						0.4($I_F = \pm 0.25\text{mA}$) ($I_C = 0.05\text{mA}$)
PS2505-1		80-600				80	100 ($V_{CE} = 40\text{V}$)	0.3($I_F = \pm 10\text{mA}$) ($I_C = 2\text{mA}$)
SFH620-1		40-125				70	50	0.4($I_F = \pm 10\text{mA}$) ($I_C = 2.5\text{mA}$)
SFH620-2		63-200					100	
SFH620-3		100-320					50	
SFH620A-1		40-125					100	
SFH620A-2		63-200						
SFH620A-3		100-320				55	200 ($V_{CE} = 10\text{V}$)	0.4($I_F = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)
SFH628-2		63-200 ²						0.4($I_F = \pm 1\text{mA}$) ($I_C = 0.8\text{mA}$)
SFH628-3		100-320 ²						0.4($I_F = \pm 1\text{mA}$) ($I_C = 1.25\text{mA}$)
SFH628-4		160-500 ²						

4 Pin DIL & SMD Optocouplers

AC Input										
Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)		
SFH628A-2	Single channel Optocoupler with two infrared LED's wired in reverse parallel allowing operation with AC input voltage	63-200 ²	7.5(pk) 5.3(rms)	± 50	1.4	55	200 ($V_{CE}=10\text{V}$)	0.4($I_F=\pm 1\text{mA}$) ($I_C=0.5\text{mA}$)		
SFH628A-3		100-320 ²						0.4($I_F=\pm 1\text{mA}$) ($I_C=0.8\text{mA}$)		
SFH628A-4		160-500 ²						0.4($I_F=\pm 1\text{mA}$) ($I_C=1.25\text{mA}$)		
TIL194		20				35	100 ($V_{CE}=24\text{V}$)	0.4($I_F=\pm 5\text{mA}$) ($I_C=1\text{mA}$)		
TIL194A		50								
TIL194B		100								
TLP620-1		40-125 ¹						55		0.4($I_F=\pm 8\text{mA}$) ($I_C=2.4\text{mA}$)
TLP626-1		100 ² 50 ³								0.4($I_F=\pm 1\text{mA}$) ($I_C=0.5\text{mA}$)

Note 1: Test Condition $I_F = \pm 5\text{mA}$
Note 2: Test Condition $I_F = \pm 1\text{mA}$, $V_{CE} = 0.5\text{V}$
Note 3: Test Condition $I_F = \pm 0.5\text{mA}$, $V_{CE} = 1.5\text{V}$
Note 4: Test Condition $I_F = \pm 1\text{mA}$
Note 5: Test Condition $I_F = \pm 0.25 / \pm 0.5 / \pm 1\text{mA}$, $V_{CE} = 5\text{V}$

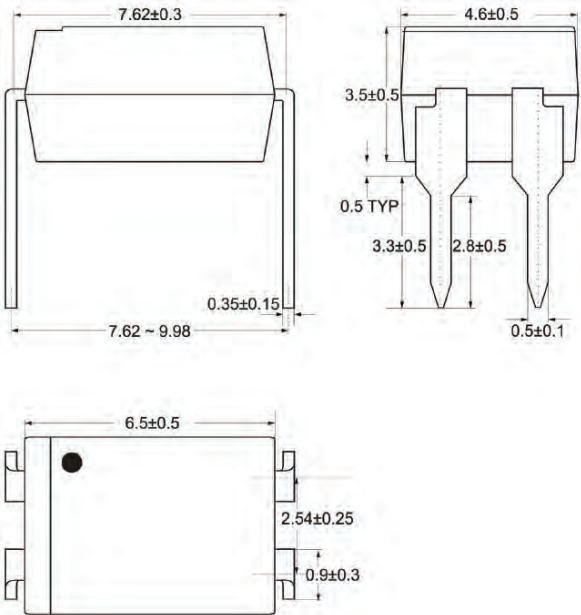
Darlington Output									
Part Number	Features	Current Transfer Ratio $I_F = \pm 1\text{mA}$ $V_{CE} = 1\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 20\text{mA}$ Max (V)	V_{BR} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO}(\text{Dark})$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE}(\text{SAT})$ Max (V)
IS627	Single channel Optocoupler with a Photo-Darlington Transistor	1000-15000 ($V_{CE}=2\text{V}$)	7.5(pk) 5.3(rms)	50	1.4	6	300^2 ($I_C=0.1\text{mA}$)	200 ($V_{CE}=200\text{V}$)	$1.2(I_F=10\text{mA})$ ($I_C = 100\text{mA}$)
ISP815		600-7500 ($V_{CE}=2\text{V}$)					35 ($I_C=0.1\text{mA}$)	100	$1(I_F=20\text{mA}, I_C=5\text{mA})$
ISP815-1		/800 ¹					70		$1(I_F=1\text{mA})$ ($I_C=8\text{mA}$)
ISP815-2		/400/800 ¹							$1(I_F=0.5\text{mA})$ ($I_C=2\text{mA}$)
ISP815-3		200/400/800 ¹							$1(I_F=0.25\text{mA})$ ($I_C=0.5\text{mA}$)
PS2502-1		200-2000					80		$1(I_F=1\text{mA})$ ($I_C=2\text{mA}$)
TIL197		500-7500					35		$1(I_F = \text{mA})$ ($I_C=10\text{mA}$)
TIL197A		1000-7500							
TIL197B		1500-7500							

Note 1: Test Condition $I_F = 0.25 / 0.5 / 1\text{mA}$, $V_{CE}=1\text{V}$
Note 2: Device has a reverse biased diode connected between pins 3 and 4 giving high breakdown stability

Transistor Output

AC Input

Darlington Output



6 Pin DIL & SMD Optocouplers

Transistor Output - Base Connected								
Part Number	Features	Current Transfer Ratio I _F = 10mA V _{CE} = 10V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V _F I _F =10mA Max (V)	BV _{CEO} I _C =1mA Min (V)	I _{CEO} (Dark) V _{CE} =10V Max (nA)	V _{CE} (SAT) Max (V)
4N25	Single channel Optocoupler with a Phototransistor Output	20	7.5(pk) 5.3(rms)	50mA	1.4	30	50	0.5(I _F =50mA) (I _C =2mA)
4N26								
4N27								
4N28								
4N35		100				50	0.3(I _F =10mA) (I _C =0.5mA)	
4N36								
4N37								
4N38								
4N38A		20 (V _{CE} =1V)				80	50 (V _{CE} =60V)	1.0(I _F =20mA) (I _C =4mA)
CNX72A		40-160 (V _{CE} =0.4V)				30	50	0.4(I _F =10mA) (I _C =4mA)
CNX83AG		40 (V _{CE} =0.4V)				50		
CNY17-1		40-80 (V _{CE} =5V)				70	50	0.4(I _F =10mA) (I _C =2.5mA)
CNY17-2		63-125 (V _{CE} =5V)						
CNY17-3		100-200 (V _{CE} =5V)						
CNY17-4		160-320 (V _{CE} =5V)						
CNY17-5		200-400 (V _{CE} =5V)						
CNY75A		100-200 (V _{CE} =5V)				90	150 (V _{CE} =20V)	0.3(I _F =10mA) (I _C =1mA)
CNY75B		160-320 (V _{CE} =5V)						
CNY75C		200-400 (V _{CE} =5V)				32	200 (V _{CE} =20V)	0.4(I _F =10mA) (I _C =0.5mA)
CQY80		50 (V _{CE} =5V)						
H11A1		50				30	50	0.4(I _F =10mA) (I _C =0.5mA)
H11A2		20						
H11A3		20						
H11A4		10						
H11A5		30						
H11AV1		100-300				70	50	0.4(I _F =20mA) (I _C =2mA)
H11AV2		50						
H11AV3		20						
IL1		20-300						
IL2		100-500				70	50	0.4(I _F =16mA) (I _C =2mA)
IL5		50-400						
IL74		12.5 (I _F =16mA)				50	50	0.4(I _F =10mA) (I _C =2mA)
IS1		20						
IS2		100				70	50	0.4(I _F =10mA) (I _C =2mA)
IS201		75/10 (I _F =10mA/1mA)						
IS202		125-250/30 (I _F =10mA/1mA)						
IS203		225-450/30 (I _F =10mA/1mA)						
IS204		200-400 (I _F =10mA/1mA)				100	50	0.4(I _F =1mA) (I _C =0.5mA)
IS204-1		/50 ¹						
IS204-2		50/ ²						
IS204-3		70 ² /100 ¹				70	50	0.4(I _F =16mA) (I _C =2mA)
IS5		50-400						
IS74		12.5 (I _F =16mA)				30	50	0.4(I _F =16mA) (I _C =2mA)
MCT2		20						
MCT2E		50				30	50	0.4(I _F =10mA) (I _C =2.5mA)
MCT210		50 (I _F =3.2-32mA) (V _{CE} =0.4V)						
MCT2200		20 (V _{CE} =5V)						
MCT2201		100 (V _{CE} =5V)						

Note 1 Test Condition: I_F=1mA, V_{CE}=0.4V Note 2 Test Condition: I_F=0.5mA, V_{CE}=0.4V

6 Pin DIL & SMD Optocouplers

Transistor Output - Base Connected

Part Number	Features	Current Transfer Ratio I _F = 10mA V _{CE} = 10V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V _F I _F =10mA Max (V)	BV _{CEO} I _C =1mA Min (V)	I _{CEO} (Dark) V _{CE} =10V Max (nA)	V _{CE} (SAT) Max (V)
MCT2202	Single channel Optocoupler with a Phototransistor Output	63-125 (V _{CE} =5V)	7.5(pk) 5.3(rms)	50mA	1.4	30	50	0.4(I _F =10mA) (I _C =2.5mA)
MCT270		50						0.4(I _F =16mA) (I _C =2mA)
MCT271		45-90						
MCT272		75-150						
SFH600-0		40-80 (V _{CE} =5V)				70		0.4(I _F =10mA) (I _C =2.5mA)
SFH600-1		63-125 (V _{CE} =5V)						
SFH600-2		100-200 (V _{CE} =5V)						
SFH600-3		160-320 (V _{CE} =5V)						
SFH600-4		200-400 (V _{CE} =5V)						
SHF601-1		40-80 (V _{CE} =5V)				100		
SFH601-2		63-125 (V _{CE} =5V)						
SFH601-3		100-200 (V _{CE} =5V)						
SFH601-4		160-320 (V _{CE} =5V)						
SFH609-1		40-80 (V _{CE} =5V)				90		
SFH609-2		63-125 (V _{CE} =5V)						
SFH609-3		100-200 (V _{CE} =5V)						
SFH609-4		160-320 (V _{CE} =5V)						
TIL111		20 (I _F =16mA) (V _{CE} =0.4V)				30		0.4(I _F =16mA) (I _C =2mA)
TIL114								0.4(I _F =15mA) (I _C =2.2mA)
TIL116								0.4(I _F =10mA) (I _C =0.5mA)
TIL117								

Transistor Output - Non Base

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)				
CNX62A	Single channel Optocoupler with a Phototransistor Output with base lead not connected for improved noise immunity	40 ($V_{CE} = 0.4\text{V}$)	7.5(pk) 5.3(rms)	50mA	1.4	50	100	0.4($I_F = 10\text{mA}$) ($I_C = 4\text{mA}$)				
CNX82A		40-80 ($V_{CE} = 5\text{V}$)				70		0.4($I_F = 10\text{mA}$) ($I_C = 2.5\text{mA}$)				
CNY17F-1												
CNY17F-2												
CNY17F-3		100-200 ($V_{CE} = 5\text{V}$)				50		0.4($I_F = 10\text{mA}$) ($I_C = 0.5\text{mA}$)				
CNY17F-4		160-320 ($V_{CE} = 5\text{V}$)										
CNY17F-5		200-400 ($V_{CE} = 5\text{V}$)										
IS205		100				70		0.4($I_F = 1\text{mA}$) ($I_C = 0.5\text{mA}$)				
IS205-1		/50 ¹										
IS205-2		50/ ²										
IS205-3		70 ² /100 ¹				50		0.4($I_F = 10\text{mA}$) ($I_C = 0.5\text{mA}$)				
IS206		50							0.4($I_F = 10\text{mA}$) ($I_C = 0.5\text{mA}$)			
MOC8101		50-80						0.4($I_F = 5\text{mA}$) ($I_C = 0.5\text{mA}$)				
MOC8102		73-117										

Note 1 Test Condition: $I_F = 1\text{mA}$, $V_{CE} = 0.4\text{V}$

Note 2 Test Condition: $I_F = 0.5\text{mA}$, $V_{CE} = 0.4\text{V}$

DRAWINGS OVERLEAF

6 Pin DIL & SMD Optocouplers cont.

Transistor Output - Non Base

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)
MOC8103	Single channel Optocoupler with a Phototransistor Output with base lead not connected for improved noise immunity	103-173	7.5(pk) 5.3(rms)	50mA	1.4	50	100	0.4($I_F = 5\text{mA}$) ($I_C = 0.5\text{mA}$)
MOC8104		160-256						
MOC8105		65-133						
MOC8106		50-150						
MOC8107		100-300						0.4($I_F = 5\text{mA}$) ($I_C = 1\text{mA}$)
MOC8108		250-600						
MOC8111		20						
MOC8112		50						
MOC8113		100						

AC Input

Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ $I_F = \pm 10\text{mA}$ $I_C = 0.5\text{mA}$ Max (V)
CNY35	Single channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	10	7.5(pk) 5.3(rms)	$\pm 50\text{mA}$	1.4	30	50	0.4
H11AA1		20						
H11AA2		10						
H11AA3		50						
H11AA4		100						
IS604		50						
IS733		20-300 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)				35	100 ($V_{CE} = 20\text{V}$)	0.2($I_F = \pm 20\text{mA}$) ($I_C = 1\text{mA}$)

Darlington Output - Base Connected

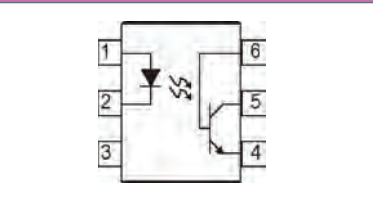
Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 50\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ $I_F = 8\text{mA}$ $I_C = 2\text{mA}$ Max (V)
4N29	Single channel Optocoupler with a Photo-Darlington Transistor	100	7.5(pk) 5.3(rms)	60mA	1.5	30	100	1
4N30		50						1.2
4N31		500						1
4N32		500 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)						1.0($I_F = 1\text{mA}$) ($I_C = 1\text{mA}$)
4N33		200 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)						
H11B1		100 ($I_F = 1\text{mA}$) ($V_{CE} = 5\text{V}$)						
H11B2		100 ($V_{CE} = 5\text{V}$)						1.0($I_F = 50\text{mA}$) ($I_C = 50\text{mA}$)
H11B3		500 ($V_{CE} = 5\text{V}$)						1.0($I_F = 1\text{mA}$) ($I_C = 2\text{mA}$)
MCA2230		100 ($V_{CE} = 5\text{V}$)						1.0($I_F = 50\text{mA}$) ($I_C = 50\text{mA}$)
MCA2231								
MCA2255								
MCA255		100 ($V_{CE} = 5\text{V}$)				55		
MCA230						30		
MCA231						55		
MOC8080		500 ($V_{CE} = 5\text{V}$)				1.0($I_F = 1\text{mA}$) ($I_C = 1\text{mA}$)		
TIL113		500 ($V_{CE} = 1\text{V}$)				30		1.0($I_F = 50\text{mA}$) ($I_C = 50\text{mA}$)

6 Pin DIL & SMD Optocouplers

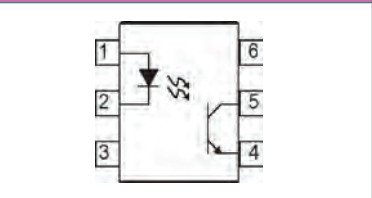
Darlington Output - Non Base								
Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 2\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)
ISPD60	Single channel Optocoupler with a Photo-Darlington Transistor with base lead not connected for improved noise immunity	100	7.5(pk) 5.3(rms)	50mA	1.4	35 ($I_C = 0.1\text{mA}$)	100	1.0($I_F = 10\text{mA}$) ($I_C = 10\text{mA}$)
ISPD61		500						
ISPD62		1000						
ISPD63		100						
ISPD64		500						
ISPD65		1000						
MOC8020		500 ($I_F = 10\text{mA}$) ($V_{CE} = 5\text{V}$)				50		
MOC8021		1000 ($I_F = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
MOC8030		300 ($I_F = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
MOC8050		500 ($I_F = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
TIL119		300 ($I_F = 10\text{mA}$) ($V_{CE} = 1\text{V}$)						30

Darlington Output - Base Connected High Voltage													
Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F=10\text{mA}$ Max (V)	BV_{CEO} $I_C=1\text{mA}$ Min (V)	$I_{CEO}(\text{Dark})$ Max (nA)	$V_{CE}(\text{SAT})$ Max (V)					
H11G1	Single channel Optocoupler with a Photo-Darlington Transistor with a high operating voltage	1000 ($I_F=1\text{mA}$) ($V_{CE}=5\text{V}$)	7.5(pk) 5.3(rms)	50	1.4	100	100 ($V_{CE}=80\text{V}$)	1.0 ($I_F=1\text{mA}$) ($I_C=1\text{mA}$)					
H11G2						80	100 ($V_{CE}=60\text{V}$)						
H11G3		200 ($I_F=1\text{mA}$) ($V_{CE}=5\text{V}$)				55	100 ($V_{CE}=30\text{V}$)	1.2($I_F=20\text{mA}$) ($I_C=50\text{mA}$)					
IS4N45		250 ($I_F=1\text{mA}$) ($V_{CE}=1\text{V}$)					100 ($V_{CE}=55\text{V}$)	1.0($I_F=1\text{mA}$) ($I_{OL}=2.5\text{mA}$)					
IS4N46		500 ($I_F=1\text{mA}$) ($V_{CE}=1\text{V}$)						1.0($I_F=0.5\text{mA}$) ($I_{OL}=1.75\text{mA}$)					
IS660		1000 ($I_F=1\text{mA}$) ($V_{CE}=5\text{V}$)				200	1000 ($V_{CE}=200\text{V}$)	1.2($I_F=20\text{mA}$) ($I_C=100\text{mA}$)					
IS661						300							
IS725													

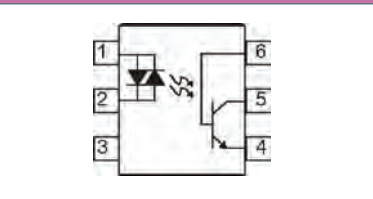
Transistor Output



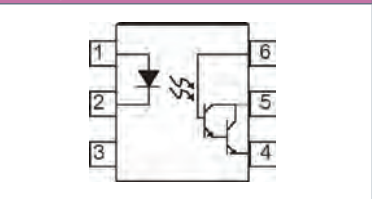
Transistor Output - Non Base



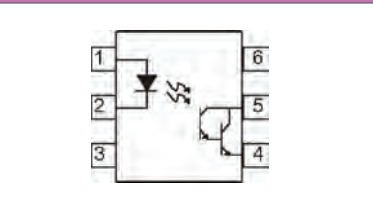
AC Input



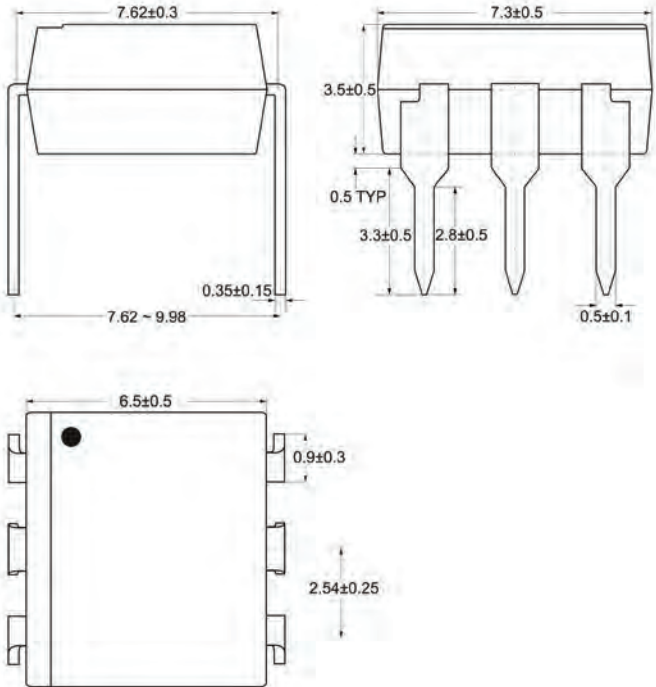
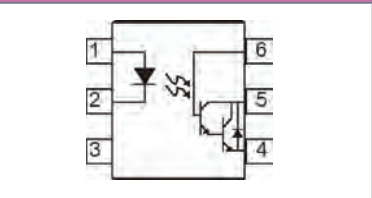
Darlington Output



Darlington Output - Non Base



Darlington Output - High Voltage



8 Pin DIL & SMD Optocouplers

Transistor Output									
Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} $I_R=10\mu\text{A}$ Min (V)	BV_{CEO} $I_C=0.5\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE}=20\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F=8\text{mA}$ $I_C=2.4\text{mA}$ Max (V)	
ISP321-2	Two channel Optocoupler with a Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	6	80	100	0.4	
ISP521-2		50-600				55			
ISP621-2		50-600				35			
ISP827		50-600				55		$0.2(I_F=20\text{mA})$ ($I_C=1\text{mA}$)	
ISP624-2		100-1200 ¹				80		$0.4(I_F=1\text{mA})$ ($I_C=0.5\text{mA}$)	
PS2501-2		80-600				35		$0.3(I_F=10\text{mA})$ ($I_C=2\text{mA}$)	
TIL192		20				80		$0.4(I_F=5\text{mA})$ ($I_C=1\text{mA}$)	
TIL192A		50							
TIL192B		100				55		0.4	
TLP321-2		50-600							
TLP521-2		50-600							
TLP621-2		50-600							
TLP624-2		50-600						$0.4(I_F=1\text{mA})$ ($I_C=0.5\text{mA}$)	

Note 1 Test condition : $I_F = 1\text{mA}$, $V_{CE} = 0.5\text{V}$

AC Input									
Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)	
ISP620-2	Two channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	40-125 ¹	7.5(pk) 5.3(rms)	50mA	1.4	55 ($I_C = 0.5\text{mA}$)	100 ($V_{CE} = 24\text{V}$)	0.4($I_F = \pm 8\text{mA}$) ($I_C = 2.4\text{mA}$)	
ISP626-2		100-1200 ² 50 ³						0.4($I_F = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)	
ISP824		20-300 ⁴				35	100	0.2($I_F = \pm 20\text{mA}$) ($I_C = 1\text{mA}$)	
PS2505-2		80-600				80	100 ($V_{CE} = 40\text{V}$)	0.3($I_F = \pm 10\text{mA}$) ($I_C = 2\text{mA}$)	
TIL195		20				35	100 ($V_{CE} = 24\text{V}$)	0.4($I_F = \pm 5\text{mA}$) ($I_C = 1\text{mA}$)	
TIL195A		50							
TIL195B		100				55		0.4($I_F = \pm 8\text{mA}$) ($I_C = 2.4\text{mA}$)	
TLP620-2		40-125 ¹						0.4($I_F = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)	
TLP626-2		100-1200 ² 50 ³							

Note 1 Test condition: $I_F = \pm 5\text{mA}$

Note 2 Test condition: $I_F = \pm 1\text{mA}$, $V_{CE} = 0.5\text{V}$

Note 3 Test condition: $I_F = \pm 0.5\text{mA}$, $V_{CE} = 1.5\text{V}$

Note 4 Test conditions: $I_F = \pm 1\text{mA}$

Darlington Output									
Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE}=1\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F=20\text{mA}$ Max (V)	V_{BR} $I_R=10\text{uA}$ Min (V)	BV_{CEO} $I_C=1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE}=10\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)
ISP825	Two channel Optocoupler with a Photo-Darlington Transistor	600-7500 ($V_{CE}=2\text{V}$)	7.5(pk) 5.3(rms)	50mA	1.4	6	35 ($I_C=0.1\text{mA}$)	100	$1(I_F=20\text{mA})$ ($I_C=5\text{mA}$)
ISP825-1		/800 ¹							$1(I_F=1\text{mA})$ ($I_C=8\text{mA}$)
ISP825-2		/400 ² /800 ¹					70		$1(I_F=0.5\text{mA})$ ($I_C=2\text{mA}$)
ISP825-3		200 ³ /400 ² /800 ¹							$1(I_F=0.25\text{mA})$ ($I_C=0.5\text{mA}$)
PS2502-2		200-2000					80		$1(I_F=1\text{mA})$ ($I_C=2\text{mA}$)
TIL198		500-7500 ($I_F=2\text{mA}$)					35		$1(I_F=2\text{mA})$ ($I_C=10\text{mA}$)
TIL198A		1000-7500 ($I_F=2\text{mA}$)							
TIL198B		1500-7500 ($I_F=2\text{mA}$)							

Note 1 Test condition: $I_F = 1\text{mA}$, $V_{CE} = 1\text{V}$

Note 2 Test condition: $I_F = 0.5\text{mA}$, $V_{CE} = 1\text{V}$

Note 3 Test condition: $I_F = 0.25\text{mA}$, $V_{CE} = 1\text{V}$

8 Pin DIL & SMD Optocouplers

8 Pin Transistor Symmetrical Configuration DIL & SMD Optocouplers

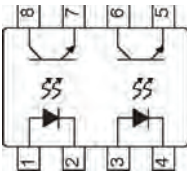
Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ $I_F = 16\text{mA}$ $I_C = 2\text{mA}$ Max (V)
ILD1	Two channel Optocoupler with a Phototransistor Output	20-300	7.5(pk) 5.3(rms)	50	6	50	50	0.4
ILD2		100-500				70		
ILD5		50-400				50		
ILD74		12.5 ($I_F = 16\text{mA}$ $V_{CE} = 5\text{V}$)				35	100 ($V_{CE} = 24\text{V}$)	0.2($I_F = 20\text{mA}$) ($I_C = 1\text{mA}$)
IS829		50 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)				50		
ISD1		20			3	30	100	0.4
ISD2		100-500				70		
ISD5		50				50		
ISD74		12.5 ($I_F = 16\text{mA}$ $V_{CE} = 5\text{V}$)				30		
MCT6		20				70		
MCT61		50 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)				50		
MCT62		100 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)				30		
MCT66		6				70		

High CTR, High Sensitivity / Low Input Current

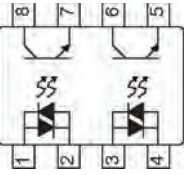
ISD201	Two channel Optocoupler with a Phototransistor Output	75 (10) ¹	7.5(pk) 5.3(rms)	50	6	70	50	0.4($I_F = 10\text{mA}$) ($I_C = 2\text{mA}$)
ISD202		125-250 (30) ¹						
ISD203		225-450 (50) ¹						
ISD204		200-400 (100) ¹						
ISD204-1		/50 ²						0.4($I_F = 1\text{mA}$) ($I_C = 0.5\text{mA}$)
ISD204-2		50/ ³						0.4($I_F = 0.5\text{mA}$) ($I_C = 0.25\text{mA}$)
ISD204-3		70 ³ /100 ²						0.4($I_F = 0.5\text{mA}$) ($I_C = 0.35\text{mA}$)

Note 1 Test condition : $I_F = 1\text{mA}$
Note 2 Test condition : $I_F = 1\text{mA}$, $V_{CE} = 0.4\text{V}$
Note 3 Test condition : $I_F = 0.5\text{mA}$, $V_{CE} = 0.4\text{V}$

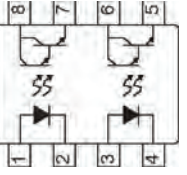
Transistor Output



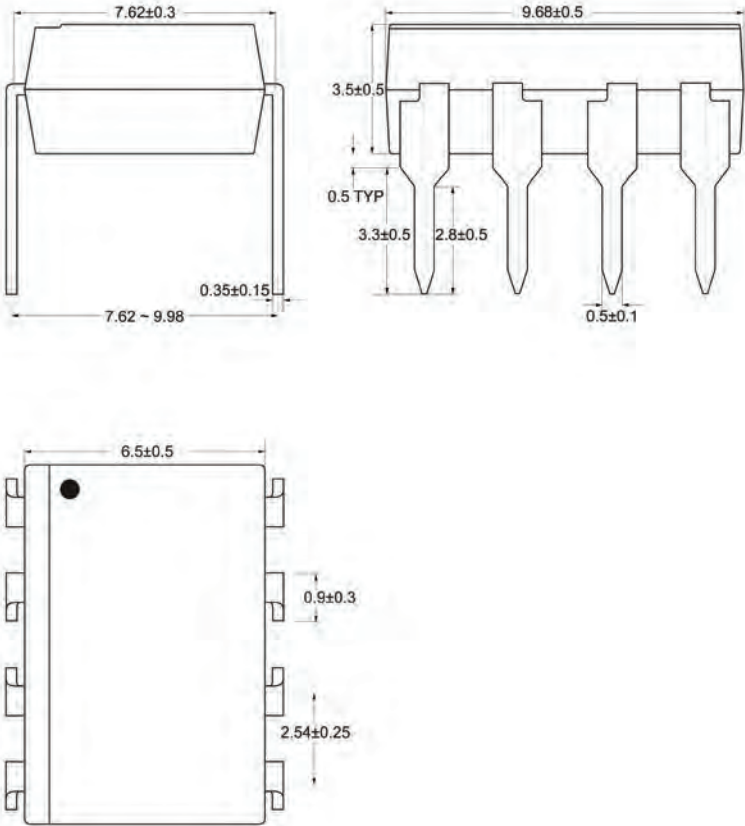
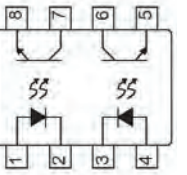
AC Input



Darlington Output



Symmetrical Configuration



16 Pin DIL & SMD Optocouplers

Transistor Output								
Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 0.5\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ $I_F = 8\text{mA}$ $I_C = 2.4\text{mA}$ Max (V)
ISP321-4	Four channel Optocoupler with a Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	6	80	100	0.4
ISP521-4		50-600				55		
ISP621-4		50-600				35		
ISP847		50-600				55		$0.2(I_F = 20\text{mA}) (I_C = 1\text{mA})$
ISP624-4		100-1200 ¹				80		$0.4(I_F = 1\text{mA}) (I_C = 0.5\text{mA})$
PS2501-4		80-600				35		$0.3(I_F = 10\text{mA}) (I_C = 2\text{mA})$
TIL193		20				80		$0.4(I_F = 5\text{mA}) (I_C = 1\text{mA})$
TIL193A		50				55		
TIL193B		100				80		
TLP321-4		50-600				55		0.4
TLP521-4		50-600						
TLP621-4		50-600						
TLP624-4		50-600						$0.4(I_F = 1\text{mA}) (I_C = 0.5\text{mA})$

Note 1 Test Condition : $I_F = 1\text{mA}$ $V_{CE} = 0.5\text{V}$

AC Input								
Part Number	Features	Current Transfer Ratio $I_F = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(\text{Dark})}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(\text{SAT})}$ Max (V)
ISP620-4	Four channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	40-125 ¹	7.5(pk) 5.3(rms)	50mA	1.4	55 ($I_C = 0.5\text{mA}$)	100 ($V_{CE} = 24\text{V}$)	$0.4(I_F = \pm 8\text{mA}) (I_C = 2.4\text{mA})$
ISP626-4		100-1200 ² 50 ³				35	100	$0.4(I_F = \pm 1\text{mA}) (I_C = 0.5\text{mA})$
ISP844		20-300 ⁴				80	100 ($V_{CE} = 40\text{V}$)	$0.2(I_F = \pm 20\text{mA}) (I_C = 1\text{mA})$
PS2505-4		80-600				35	100 ($V_{CE} = 24\text{V}$)	$0.3(I_F = \pm 10\text{mA}) (I_C = 2\text{mA})$
TIL196		20						$0.4(I_F = \pm 5\text{mA}) (I_C = 1\text{mA})$
TIL196A		50						
TIL196B		100						$0.4(I_F = \pm 8\text{mA}) (I_C = 2.4\text{mA})$
TLP620-4		40-125 ¹						
TLP626-4		100-1200 ² 50 ³						$0.4(I_F = \pm 1\text{mA}) (I_C = 0.5\text{mA})$

Note 1 Test condition : $I_F = \pm 5\text{mA}$

Note 2 Test condition : $I_F = \pm 1\text{mA}$, $V_{CE} = 0.5\text{V}$

Note 3 Test condition : $I_F = \pm 0.5\text{mA}$, $V_{CE} = 1.5\text{V}$

Note 4 Test condition : $I_F = \pm 1\text{mA}$

Darlington Output									
Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE}=1\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F=20\text{mA}$ Max (V)	V_{BR} $I_R=10\text{uA}$ Min (V)	BV_{CEO} $I_C=1\text{mA}$ Min (V)	$I_{CEO}(\text{Dark})$ $V_{CE}=10\text{V}$ Max (nA)	$V_{CE}(\text{SAT})$ Max (V)
ISP845	Four channel Optocoupler with a Photo-Darlington Transistor	600-7500 ($V_{CE}=2\text{V}$)	7.5(pk) 5.3(rms)	50mA	1.4	6	35 ($I_C=0.1\text{mA}$)	100	1($I_F=20\text{mA}$) ($I_C=5\text{mA}$)
ISP845-1		/800 ¹							1($I_F=1\text{mA}$) ($I_C=8\text{mA}$)
ISP845-2		/400 ² /800 ¹					70		1($I_F=0.5\text{mA}$) ($I_C=2\text{mA}$)
ISP845-3		200 ³ /400 ² /800 ¹							1($I_F=0.25\text{mA}$) ($I_C=0.5\text{mA}$)
PS2502-4		200-2000					80		1($I_F=1\text{mA}$) ($I_C=2\text{mA}$)
TIL199		500-7500 ($I_F=2\text{mA}$)					35		1($I_F=2\text{mA}$) ($I_C=10\text{mA}$)
TIL199A		1000-7500 ($I_F=2\text{mA}$)							
TIL199B		1500-7500 ($I_F=2\text{mA}$)							

Note 1 Test condition: $I_F = 1\text{mA}$, $V_{CE} = 1\text{V}$

Note 2 Test condition: $I_F = 0.5\text{mA}$, $V_{CE} = 1\text{V}$

Note 3 Test condition: $I_F = 0.25\text{mA}$, $V_{CE} = 1\text{V}$

16 Pin DIL & SMD Optocouplers

16 Pin Transistor Symmetrical Configuration DIL & SMD Optocouplers

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$	Min (KV) Isolation Voltage	Forward Current	V_{BR}	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(\text{Dark})}$ $V_{CE} = 10\text{V}$	$V_{CE(\text{SAT})}$ $I_F = 16\text{mA}$ $I_C = 2\text{mA}$
		Min (%)	Min (KV)	Max (mA)	Min (V)	Min (V)	Max (nA)	Max (V)
ILQ1	Four channel Optocoupler with a Phototransistor Output	20-300	7.5(pk) 5.3(rms)	50	6	50	50	0.4
ILQ2		100-500				70		
ILQ5		50-400						
ILQ74		$12.5(I_F = 16\text{mA } V_{CE} = 5\text{V})$				50	$100(V_{CE} = 24\text{V})$	$0.2(I_F = 20\text{mA } I_C = 1\text{mA})$ $0.3(I_F = 10\text{mA } I_C = 2\text{mA})$ $0.4(I_F = 5\text{mA } I_C = 1\text{mA})$ 0.4
IS849		$50(I_F = 5\text{mA } V_{CE} = 5\text{V})$				35		
ISQ1		20				50		
ISQ2		100-500				70		
ISQ5		50				50		
ISQ74		$12.5(I_F = 16\text{mA } V_{CE} = 5\text{V})$						

High CTR, High Sensitivity / Low Input Current

ISQ201	Four channel Optocoupler with a Phototransistor Output	75 (10) ¹	7.5(pk) 5.3(rms)	50	6	70	50	$0.4(I_F = 10\text{mA } I_C = 2\text{mA})$ $0.4(I_F = 1\text{mA } I_C = 0.5\text{mA})$ $0.4(I_F = 0.5\text{mA } I_C = 0.25\text{mA})$ $0.4(I_F = 0.5\text{mA } I_C = 0.35\text{mA})$
ISQ202		125-250 (30) ¹						
ISQ203		225-450 (50) ¹						
ISQ204		200-400 (100) ¹						
ISQ204-1		/50 ²						
ISQ204-2		50/ ³						
ISQ204-3		70 ³ /100 ²						

Note 1 Test Condition: $I_F = 1\text{mA}$

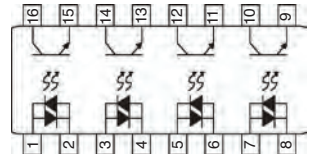
Note 2 Test Condition: $I_F = 1\text{mA}, V_{CE} = 0.4\text{V}$

Note 3 Test Condition: $I_F = 0.5\text{mA}, V_{CE} = 0.4\text{V}$

Transistor Output



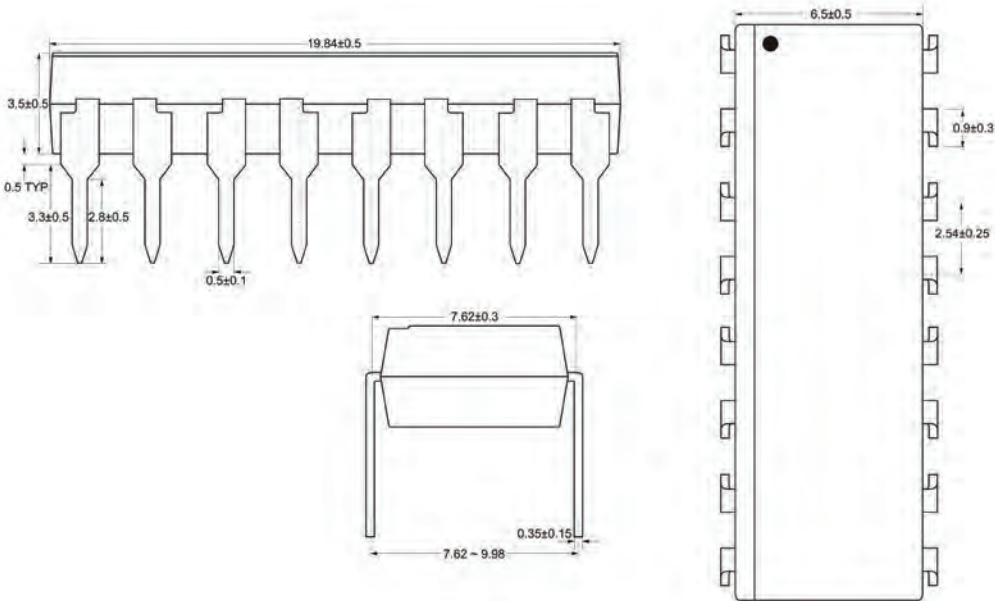
AC Input



Darlington Output



Symmetrical Configuration



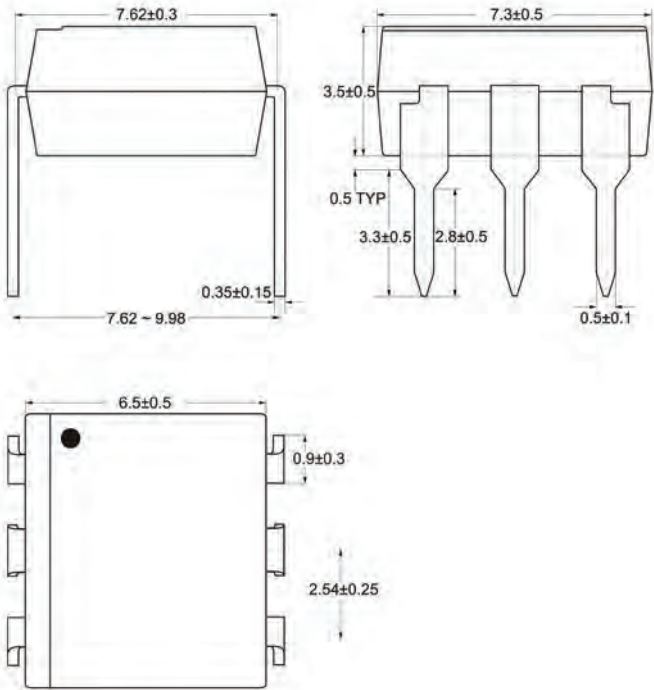
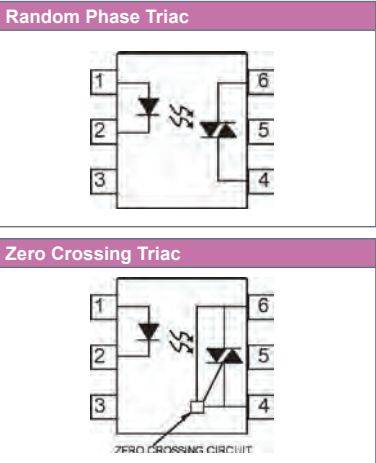
6 Pin DIL & SMD Triac Optocouplers

Random Phase Triac							
Part Number	Features	Input Trigger Current $V_D = 3V$	Isolation Voltage	Continuous Forward Current Input Diode	V_{BR} $I_R = 10\mu A$	I_{DRM} Peak Off-State Current $V_{DRM} = \text{Rated}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$
		Max (mA)	Min (KV)	Max (mA)	Min (V)	$V_{DRM} = \text{Rated}$ Max (nA)	$I_{DRM} = 0.1mA$ Min (V)
H11J1	Infrared Emitting Diode And Light Activated Silicon Bilateral Switch	10	7.5(pk) 5.3(rms)	50	6	100	250
H11J2		15					
H11J3		10					
H11J4		15					
H11J5		25					
IS3009		30					
IS3010		15					
IS3011		10					
IS3012		5					
IS3020		30					400
IS3021		15					
IS3022		10					
IS3023		5					
IS3051		15					600
IS3052		10					
IS6003		3					
IS6005		5					
IS6010		10					
IS6015		15					
IS6030		30					
IS607		10					450
IS608		7					250
MOC3009		30					
MOC3010		15					
MOC3011		10					400
MOC3012		5					
MOC3020		30					
MOC3021		15					
MOC3022		10					600
MOC3023		5					
MOC3051		15					
MOC3052		10					

Zero Crossing Triac							
Part Number	Features	Input Trigger Current $V_D = 3V$	Isolation Voltage	Continuous Forward Current Input Diode	V_{BR} $I_R = 10\mu A$	I_{DRM} Peak Off-State Current $V_{DRM} = \text{Rated}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$
		Max (mA)	Min (KV)	Max (mA)	Min (V)	Max (nA)	Min (V)
IS3030	Infrared Emitting Diode And Light Activated Zero Crossing Bilateral Switch	30	7.5(pk) 5.3(rms)	50	6	300	250
IS3031		15					
IS3032		10					
IS3033		5					
IS3040		30					400
IS3041		15					
IS3042		10					
IS3043		5					
IS3060		30					600
IS3061		15					

6 Pin DIL & SMD Triac Optocouplers

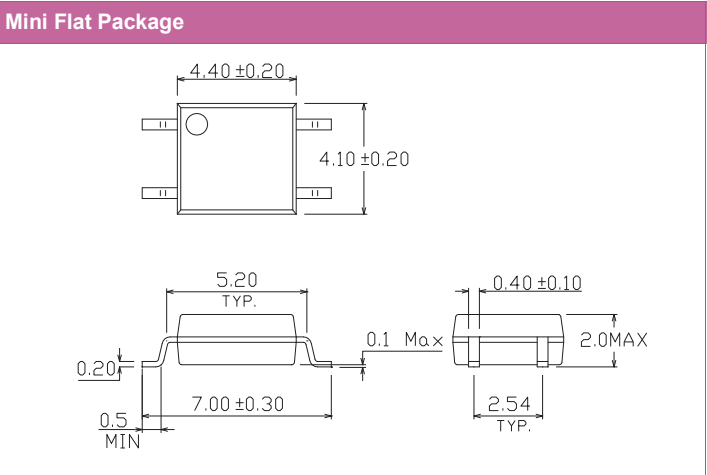
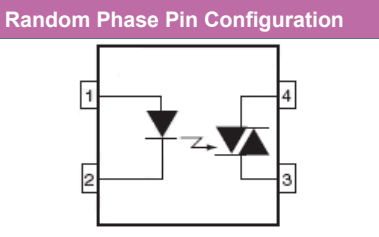
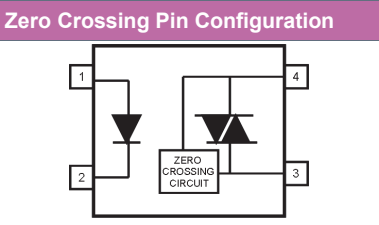
Zero Crossing Triac							
Part Number	Features	Input Trigger Current $V_D = 3V$	Isolation Voltage	Continuous Forward Current Input Diode	V_{BR} $I_R = 10\mu A$	I_{DRM} Peak Off-State Current $V_{DRM} = \text{Rated}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$
		Max (mA)	Min (KV)	Max (mA)	Min (V)	Max (nA)	Min (V)
IS3062	Infrared Emitting Diode And Light Activated Zero Crossing Bilateral Switch	10	7.5(pk) 5.3(rms)	50	6	300	600
IS3063		5					800
IS3080		30					
IS3081		15					
IS3082		10					
IS3083		5					
IS620		30					400
IS621		15					
IS622		10					
IS623		5					
MOC3030		30					250
MOC3031		15					
MOC3032		10					
MOC3033		5					
MOC3040		30					400
MOC3041		15					
MOC3042		10					
MOC3043		5					
MOC3060		30					600
MOC3061		15					
MOC3062		10					
MOC3063		5					
MOC3080		30					800
MOC3081		15					
MOC3082		10					
MOC3083		5					



Mini Flat Triac Series

Zero Crossing Series							
Part Number	Features	Input Trigger Current $V_o = 3V$	Isolation Voltage	Continuous Forward Current	V_{BR} $I_R = 10\mu A$	I_{DRM} Peak Off State Current $V_{DRM} = \text{Rated } V_{DRM}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$
		Max (mA)	Min (KV _{RMS})	Max (mA)	Min (V)	Max (nA)	Max (V)
MF3030	Infrared Emitting Diode and Light Activated Zero Crossing Bilateral Switch in a space saving Mini Flat Package	30	3.75	60	5	100	250
MF3031		15					
MF3032		10					
MF3033		5					
MF3040		30					400
MF3041		15					
MF3042		10					
MF3043		5					
MF3060		30					600
MF3061		15					
MF3062		10					
MF3063		5					
MF3080		30					800
MF3081		15					
MF3082		10					
MF3083		5					

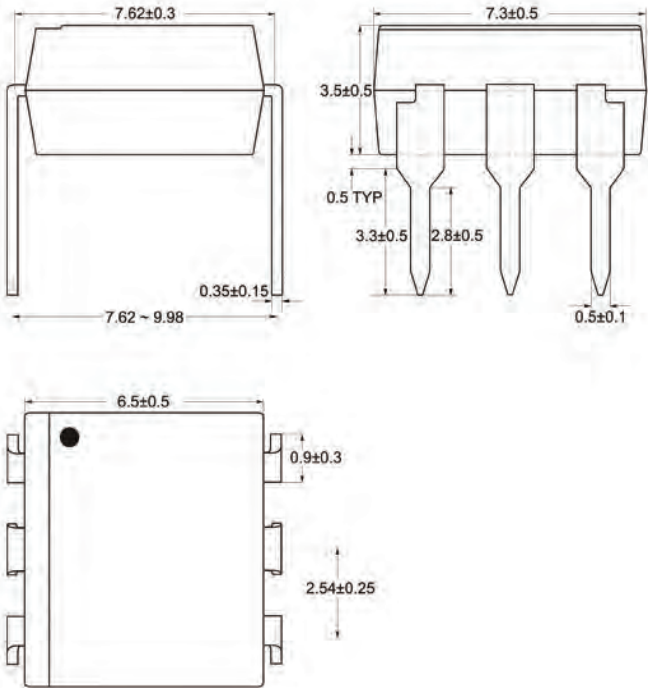
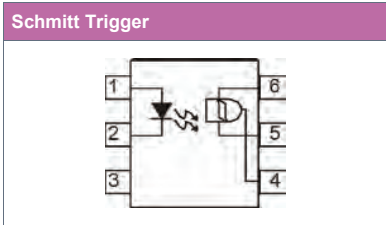
Random Phase Series							
Part Number	Features	Input Trigger Current $V_o = 3V$	Isolation Voltage	Continuous Forward Current	V_{BR} $I_R = 10\mu A$	I_{DRM} Peak Off State Current $V_{DRM} = \text{Rated } V_{DRM}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$
		Max (mA)	Min (KV _{RMS})	Max (mA)	Min (V)	Max (nA)	Max (V)
MF3009	Infrared Emitting Diode and Light Activated Random Phase Bilateral Switch in a space saving Mini Flat Package	30	3.75	60	5	100	250
MF3010		15					
MF3011		10					
MF3012		5					
MF3020		30					400
MF3021		15					
MF3022		10					
MF3023		5					
MF3051		30					600
MF3052		15					



6 Pin DIL & SMD Schmitt Trigger

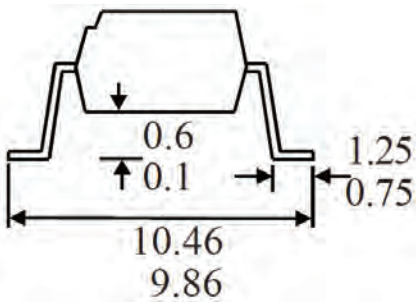
Schmitt Trigger								
Part Number	Features	Turn-On Threshold Current R _L = 270Ω V _{CE} = 5V Max (mA)	Turn-Off Threshold Current R _L = 270Ω V _{CE} = 5V Min (mA)	Isolation Voltage Min (KV _{RMS})	Continuous Forward Current Max (mA)	V _F I _F = 50mA Max (V)	V _{BR} (LED) I _R = 10μA Min (V)	V _{OL} Output Voltage (Low) R _L = 270Ω V _{CE} = 5V Max (V)
H11L1	Microprocessor Compatible	1.5	0.3	5	50	1.5	100	0.4
H11L2		10						
H11L3		5						
H11L4		2.0						
IS609		1.6						
MOC5007		4						
MOC5008		10						
MOC5009								

Schmitt Trigger

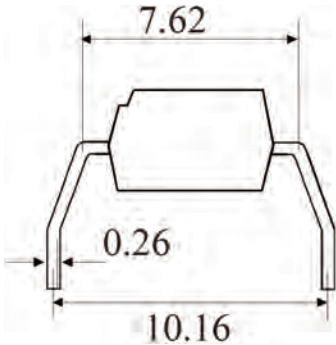


Lead Form Diagrams

OPTION SM
SURFACE MOUNT



OPTION G



4 Pin Mini Flat Packages

Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 0.5\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS121	Single Channel Optocoupler with Phototransistor Output	50-600	3.75	50	1.4	80	100	0.2
IS181								
IS2701-1								
IS357								
IS357A		80-160						
IS357B		130-260						
IS357C		200-400						
IS357D		300-600						

AC Input

Part Number	Features	Current Transfer Ratio $I_F = \pm 1\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = \pm 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = \pm 20\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS180	Single Channel Optocoupler with two Infrared LED's wired in Inverse Parallel allowing Operation with AC Input Voltage	20-400	3.75	± 50	1.4	35	100	0.2
IS126								
IS2705-1								
IS354								
IS354A		50-150						

Darlington Output

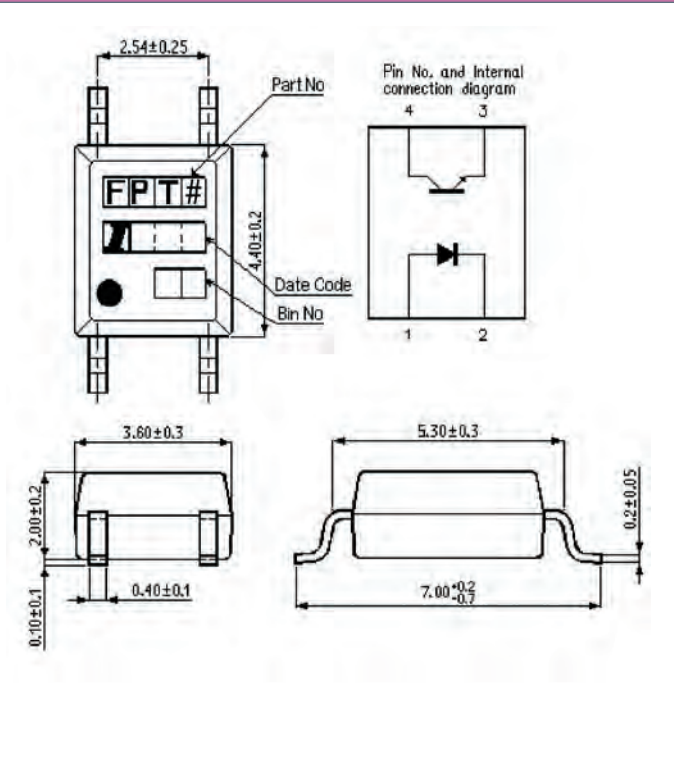
Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS355	Single Channel Optocoupler with Photo-Darlington Transistor Output	600-7500	3.75	50	1.4	35	1000	1
IS2702-1								

Darlington Output - High Voltage

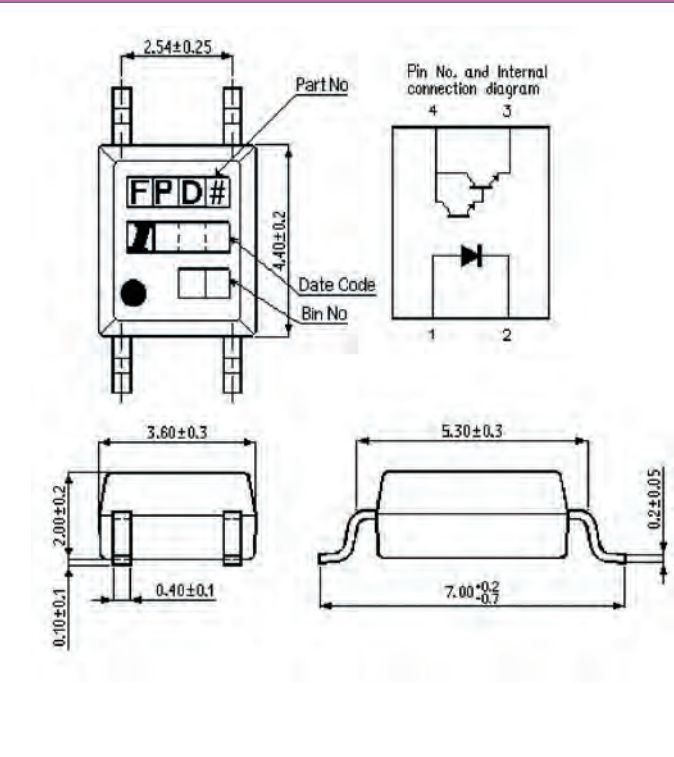
Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 200\text{V}$	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 100\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS2732-1	Single Channel Optocoupler with Photo-Darlington ransistor with High Output Voltage	1000	3.75	50	1.4	300	200	1.2
IS452								
IS127								

4 Pin Mini Flat Package

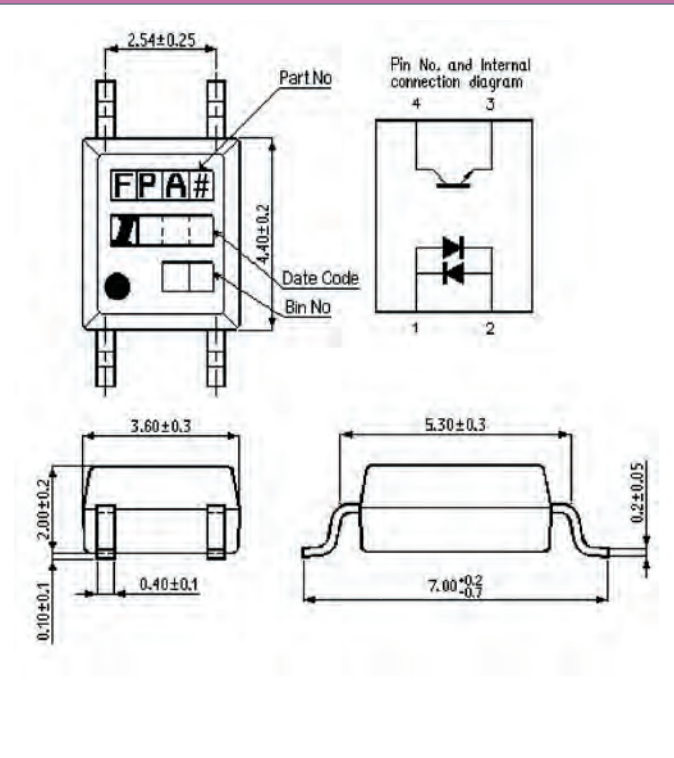
Transistor Output



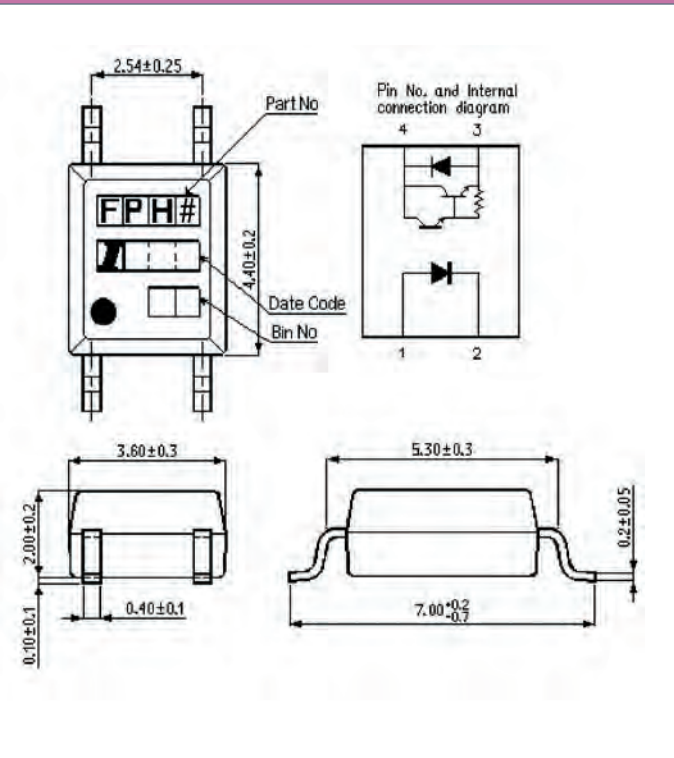
Darlington Output



AC Input



Darlington Output - High Voltage



= Internal binning

Half Pitch Optocouplers

4 Pin Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 10\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS281	Single channel Optocoupler with Phototransistor Output	50-600	3.75	50	1.4	80	100	0.2
		40-600 $I_F = 10\text{mA}$ $V_{CE} = 5\text{V}$						
IS3H7		50-600						
		40-600 $I_F = 10\text{mA}$ $V_{CE} = 5\text{V}$						
IS2801-1		50-600						

8 Pin Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 10\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 10\text{V}$	$V_{CE(SAT)}$ $I_F = 10\text{mA}$ $I_C = 2.4\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
MOCD207	Dual channel Optocoupler with Phototransistor Output	34 100-200 $I_F = 10\text{mA}$ $V_{CE} = 5\text{V}$	3.75	60	1.5	80	50	0.4
MOCD217		100						

16 Pin Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 50\text{V}$	$V_{CE(SAT)}$ $I_F = 8\text{mA}$ $I_C = 2.4\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS281-4	Quad channel Optocoupler with Phototransistor Output	50-600	3.75	50	1.4	80	100	0.4
IS2801-4								

Half Pitch Optocouplers

4 Pin AC Input

Part Number	Features	Current Transfer Ratio $I_F = \pm 1\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = \pm 50\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = \pm 20\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS280	Single channel Optocoupler with Phototransistor Output	20-300	3.75	± 50	1.6	80	100	0.2
IS2805								
IS3H4								

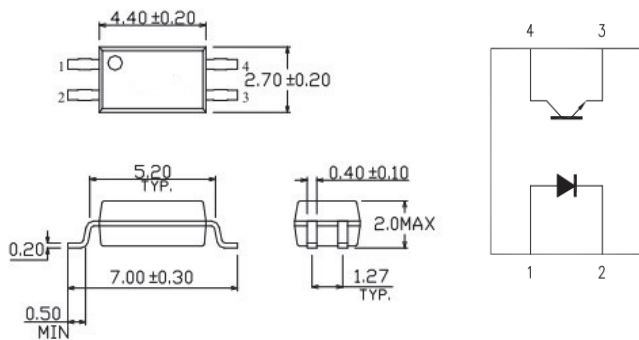
16 Pin AC Input

Part Number	Features	Current Transfer Ratio $I_F = \pm 1\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = \pm 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 50\text{V}$	$V_{CE(SAT)}$ $I_F = \pm 8\text{mA}$ $I_C = 2.4\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS2805-4	Quad channel Optocoupler with Phototransistor Output	20-400	3.75	± 50	1.4	80	100	0.4

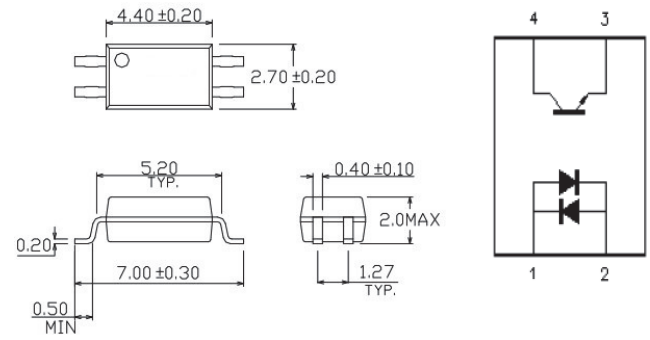
▶ DRAWINGS OVERLEAF

Half Pitch Optocouplers

4 Pin Transistor Output



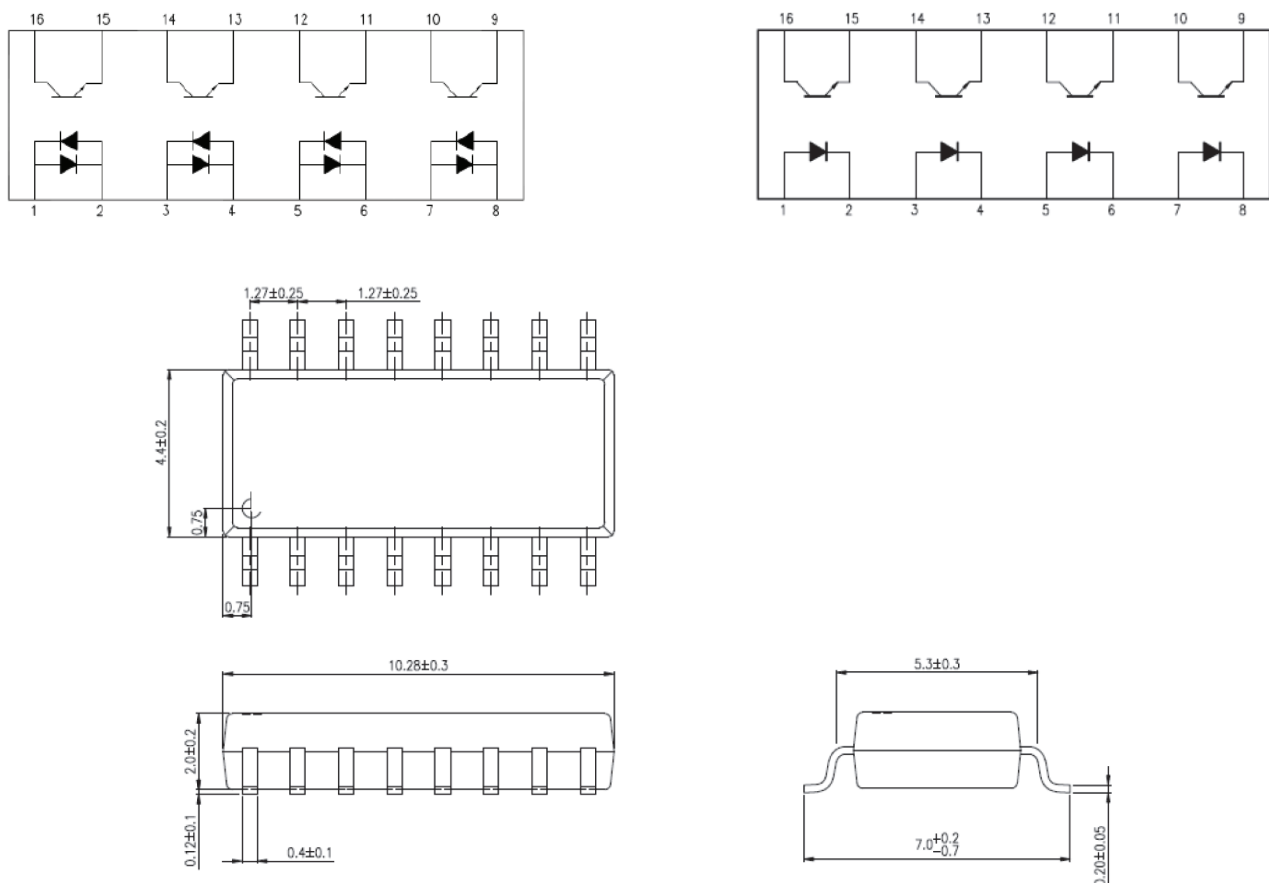
4 Pin AC Input Transistor Output



8 Pin Transistor Output



16 Pin Transistor Output / 16 Pin AC Input

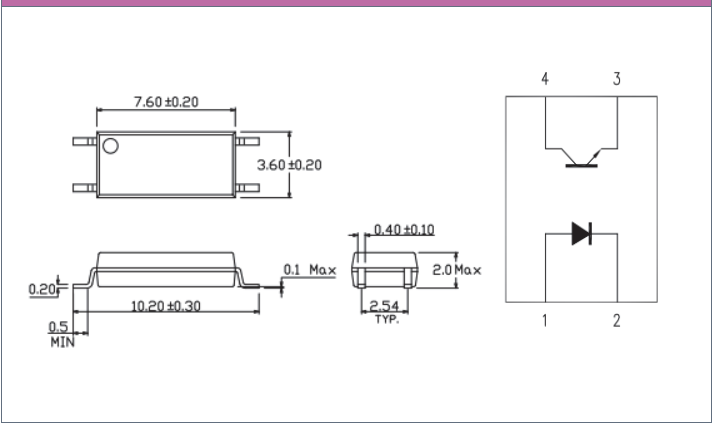


Long Creepage Optocouplers

4 Pin Long Creepage Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 50\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 10\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
ISLT1001	Single channel Optocoupler with Phototransistor Output	50-600	5	60	1.5	80	100	0.3
ISLT1002		63-125 $I_F = 10\text{mA}$, $V_{CE} = 5\text{V}$ 22 $I_F = 1\text{mA}$, $V_{CE} = 5\text{V}$						
ISLT1003		100-200 $I_F = 10\text{mA}$, $V_{CE} = 5\text{V}$ 34 $I_F = 1\text{mA}$, $V_{CE} = 5\text{V}$						
ISLT1004		160-320 $I_F = 10\text{mA}$, $V_{CE} = 5\text{V}$ 56 $I_F = 1\text{mA}$, $V_{CE} = 5\text{V}$						
ISLT1007		80-160						
ISLT1008		130-260						
ISLT1009		200-400						

4 Pin Long Creepage Transistor Output



IGBT/MOSFET/IPM Gate Drive Optocoupler

Single Channel Gate Drive

Part Number	Features	Peak Output Current	Isolation Voltage	V _{CC}	T _{OP}	UVLO+	UVLO-	I _{FLH} Input Threshold Current (Low to High)	V _{FHL} Input Threshold Voltage (High to Low)	t _{PLH} , t _{PHL}	CM _H	CM _L
		Max (A)	Min (KV _{RMS})	Max (V)	(°C)	V _O > 5V, I _F = 10mA (V)	V _O < 5V, I _F = 10mA (V)	V _O > 5V, I _O = 0A Max (mA)	V _O < 5V, I _O = 0A Min (V)	V _{CC} = 15-30V I _F = 7-16 mA R _g = 10 Ω C _g = 10 nF f = 10 kHz D.C. = 50% Max (ns)	V _{CC} = 30V I _F = 10-16mA V _{CM} = 1500 Vp-p Min (KV/μs)	V _{CC} = 30V V _F = 0V V _{CM} = 1500 Vp-p Min (KV/μs)
ICPL3120	2.5A Output High Common Mode Noise Immunity with UVLO Gate Drive Optocoupler	±2.5	5	35 Note 1	-40 - 110	11.5 - 13.5	10 - 12	5	0.8	500	25	25
ICPL3150	1.0A Output High Common Mode Noise Immunity Gate Drive Optocoupler	±1.0	5	35 Note 1	-40 - 105	Not Applicable	Not Applicable	5	0.8	200 R _g = 47 Ω C _g = 3 nF	20	20

Note 1 : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Single Channel Stretched SO6 (Wide Lead Separation) Gate Drive

Part Number	Features	Peak Output Current	Isolation Voltage	V _{CC}	T _{OP}	UVLO+	UVLO-	I _{FLH} Input Threshold Current (Low to High)	V _{FHL} Input Threshold Voltage (High to Low)	t _{PLH} , t _{PHL}	CM _H	CM _L
		Max (A)	Min (KV _{RMS})	Max (V)	(°C)	V _O > 5V, I _F = 10mA (V)	V _O < 5V, I _F = 10mA (V)	V _O > 5V, I _O = 0A Max (mA)	V _O < 5V, I _O = 0A Min (V)	V _{CC} = 15-30V I _F = 7-16 mA R _g = 47 Ω C _g = 3 nF f = 10 kHz D.C. = 50% Max (ns)	V _{CC} = 30V I _F = 10-16mA V _{CM} = 1500 Vp-p Min (KV/μs)	V _{CC} = 30V V _F = 0V V _{CM} = 1500 Vp-p Min (KV/μs)
IS314W	1.0A Output High Common Mode Noise Immunity with UVLO Gate Drive Optocoupler	±1.0	5	35 Note 1	-40 - 105	11.0 - 13.5	9.5 - 12.0	5	0.8	500	20	20

Note 1 : V_{CC} must be bypassed by a minimum 1μF capacitor

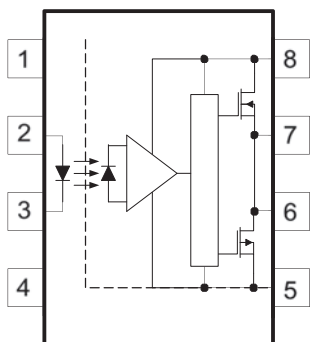
Single Channel Stretched SO6 IPM / Gate Drive

Part Number	Features	Max Output Current	Isolation Voltage	V _{CC}	T _{OP}	UVLO+	UVLO-	I _{FLH} Input Threshold Current (Low to High)	V _{FHL} Input Threshold Voltage (High to Low)	t _{PLH} , t _{PHL}	CM _H	CM _L
		Max (mA)	Min (KV _{RMS})	Max (V)	(°C)	V _O > 5V, I _F = 10mA (V)	V _O < 5V, I _F = 10mA (V)	V _O > 5V, I _O = 0A Max (mA)	V _O < 5V, I _O = 0A Min (V)	V _{CC} = 4.5-30V I _F = 0-1.6 mA C _L = 100 pF f = 100 kHz D.C. = 10% Max (ns)	V _{CC} = 5V I _F = 4mA V _{CM} = 1500 Vp-p Min (KV/μs)	V _{CC} = 5V V _F = 0V V _{CM} = 1500 Vp-p Min (KV/μs)
IS480P	High Common Mode Noise Immunity with built-in Schmitt Trigger IPM / Gate Drive Optocoupler	±50	5	35 Note 1	-40 - 105	Not Applicable	Not Applicable	1.5	0.8	t _{PLH} 220 t _{PHL} 200	20	20

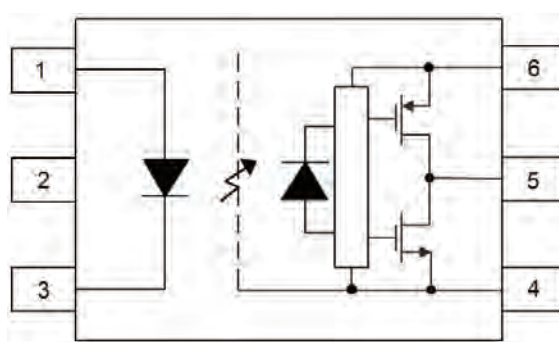
Note 1 : V_{CC} must be bypassed by a minimum 0.1μF capacitor

IGBT/MOSFET/IPM Gate Drive Optocoupler

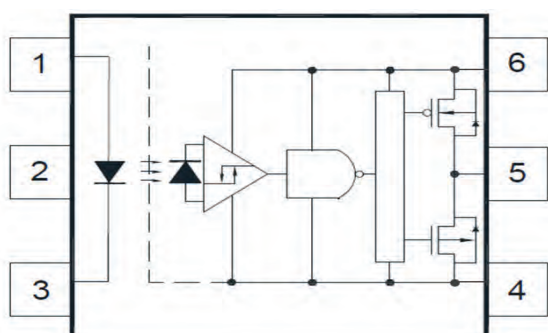
ICPL3120 / ICPL3150



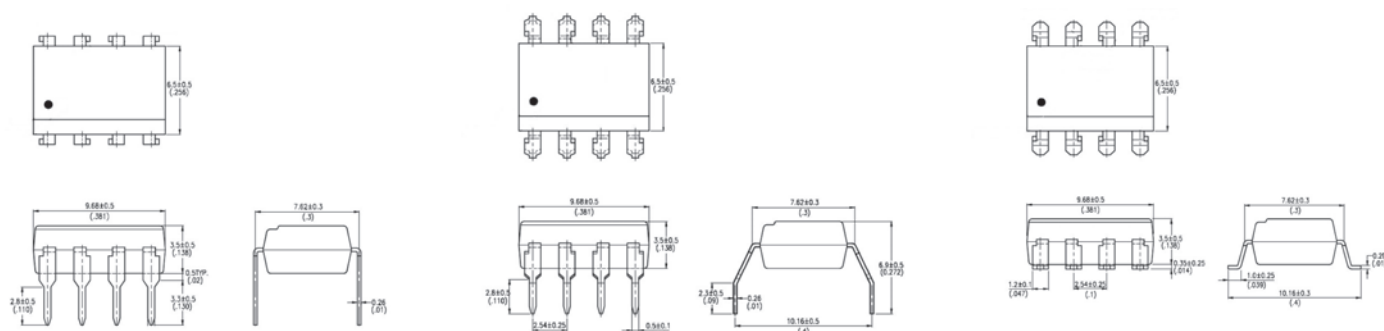
IS314W



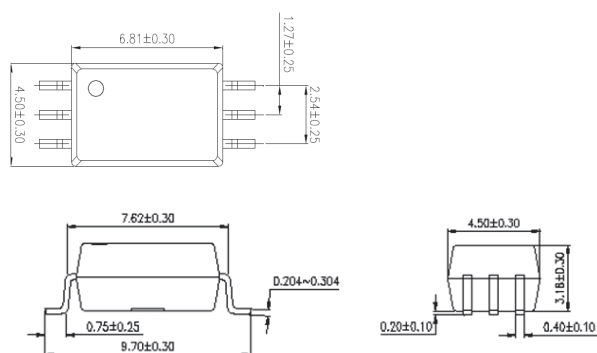
IS480P



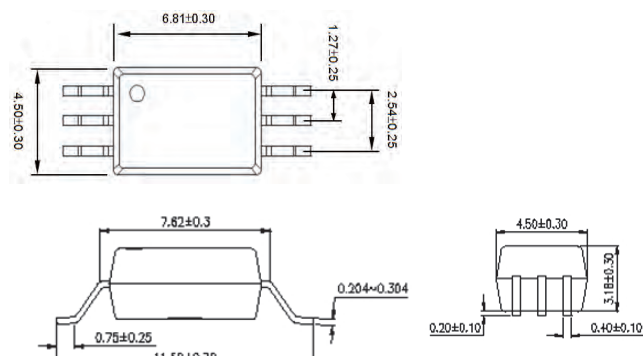
Standard Packages



Stretched SO6 Package



Stretched SO6 (Wide Lead Separation) Package



1Mbps/s High Speed Optocouplers

Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} , t _{PHL}	CM _H	CM _L
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 1.1mA	V _{CC} = 5V I _F = 16mA R _L = 4.1kΩ	V _{CC} = 5V I _F = 0mA V _{OH} = 2V R _L = 4.1kΩ V _{CM} = 10Vp-p	V _{CC} = 5V I _F = 16mA V _{OL} = 0.8V R _L = 4.1kΩ V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)	Min (V/μs)
6N135	Single Channel Optocoupler with a High Speed Photo Detector Transistor Output	5	-55 - 100	30 Note 1	20	5	7-50	0.4	1.5	1000	1000
6N136						No Connection	19-50	0.4 I _O = 3mA	0.8 R _L = 1.9kΩ	1000 R _L = 1.9kΩ	1000 R _L = 1.9kΩ
ICPL4502										15000 R _L = 1.9kΩ V _{CM} = 1500Vp-p	15000 R _L = 1.9kΩ V _{CM} = 1500Vp-p
ICPL4503											

Note 1 : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

Wide Body Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} , t _{PHL}	CM _H	CM _L
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 1.1mA	V _{CC} = 5V I _F = 16mA R _L = 4.1kΩ	V _{CC} = 5V I _F = 0mA V _{OH} = 2V R _L = 4.1kΩ V _{CM} = 10Vp-p	V _{CC} = 5V I _F = 16mA V _{OL} = 0.8V R _L = 4.1kΩ V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)	Min (V/μs)
ICPLW135	Single Channel Optocoupler with a High Speed Photo Detector Transistor Output	5	-55 - 100	30 Note 1	20	5	7-50	0.4	1.5	1000	1000
ICPLW136						No Connection	19-50	0.4 I _O = 3mA	0.8 R _L = 1.9kΩ	1000 R _L = 1.9kΩ	1000 R _L = 1.9kΩ
ICPLW4503										15000 R _L = 1.9kΩ V _{CM} = 1500Vp-p	15000 R _L = 1.9kΩ V _{CM} = 1500Vp-p

Note 1 : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

Half Pitch Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} , t _{PHL}	CM _H	CM _L
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 1.1mA	V _{CC} = 5V I _F = 16mA V _{OH} = 2V R _L = 4.1kΩ	V _{CC} = 5V I _F = 0mA V _{OH} = 2V R _L = 4.1kΩ V _{CM} = 10Vp-p	V _{CC} = 5V I _F = 16mA V _{OL} = 0.8V R _L = 4.1kΩ V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)	Min (V/μs)
ICPL0500	Single Channel Optocoupler with a High Speed Photo Detector Transistor Output	3.75	-55 - 100	30 Note 1	20	5	7-50	0.4	1.5	1000 Typical	1000 Typical
ICPL0501						No Connection	19-50	0.4 I _O = 3mA	0.8 R _L = 1.9kΩ	1000 Typical R _L = 1.9kΩ	1000 Typical R _L = 1.9kΩ
ICPL0452										15000 R _L = 1.9kΩ V _{CM} = 1500Vp-p	15000 R _L = 1.9kΩ V _{CM} = 1500Vp-p
ICPL0453											

Note 1 : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

5 Pin Half Pitch Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} , t _{PHL}	CM _H	CM _L
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 3mA	V _{CC} = 5V I _F = 16mA R _L = 1.9kΩ	V _{CC} = 5V I _F = 0mA V _{OH} = 2V R _L = 1.9kΩ V _{CM} = 10Vp-p	V _{CC} = 5V I _F = 16mA V _{OL} = 0.8V R _L = 1.9kΩ V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)	Min (V/μs)
ICPLM452	Single Channel Optocoupler with a High Speed Photo Detector Transistor Output	3.75	-40 - 85	30 Note 1	20	No Connection	20 - 50	0.4	0.8	5000	5000
ICPLM453										15000 V _{CM} = 1500Vp-p	15000 V _{CM} = 1500Vp-p

Note 1 : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

1Mbps/s High Speed Optocouplers

Stretched Body SO6 (Wide Lead Separation) Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} , t _{PHL}	CM _H	CM _L
							V _{CC} = 3.3V or 5.5V I _F = 3mA V _O = 0.4V	V _{CC} = 3.3V or 5V I _F = 3mA I _O = 3mA	I _F = 3mA C _L = 15pF f = 10kHz Duty Cycle = 50% V _{CC} = 3.3V R _L = 1.8kΩ or V _{CC} = 5V R _L = 2.9kΩ t _{PLH} at V _{THLH} = 2V t _{PHL} at V _{THHL} = 1.5V	V _{CC} = 3.3V or 5V I _F = 0mA V _{OH} = 2V R _L = 1.8kΩ or 2.9kΩ V _{CM} = 1500Vp-p	V _{CC} = 3.3V or 5V I _F = 3mA V _{OL} = 0.8V R _L = 1.8kΩ or 2.9kΩ V _{CM} = 1500Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)	Min (V/μs)
ICPLW50L	Single Channel Optocoupler with a High Speed Photo Detector Transistor Output	5	-40– 105	30 Note 1	20	No Connection	90-200	0.4	1 t _{PLH} 1.4 (V _{CC} = 3.3V)	15000	15000

Note 1 : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

Dual Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} , t _{PHL}	CM _H	CM _L
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 1.1mA	V _{CC} = 5V I _F = 16mA R _L = 4.1kΩ	V _{CC} = 5V I _F = 0mA V _{OH} = 2V R _L = 4.1kΩ V _{CM} = 10Vp-p	V _{CC} = 5V I _F = 16mA V _{OL} = 0.8V R _L = 4.1kΩ V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)	Min (V/μs)
ICPL2530	Dual Channel Optocoupler with a High Speed Photo Detector Transistor Output	5	-40– 100	30 Note 1	20	No Connection	7-50	0.5	1.5	1000	1000
ICPL2531							19-50	0.5 I _O = 3mA	0.8 R _L = 1.9kΩ	1000 R _L = 1.9kΩ V _{CM} = 1000Vp-p	1000 R _L = 1.9kΩ V _{CM} = 1000Vp-p

Note 1 : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

Half Pitch Dual Channel

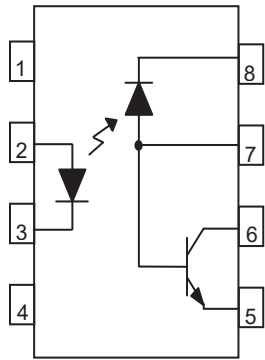
Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	I _B	Current Transfer Ratio	V _{OL}	t _{PLH} , t _{PHL}	CM _H	CM _L
							V _{CC} = 4.5V I _F = 16mA V _O = 0.4V	V _{CC} = 4.5V I _F = 16mA I _O = 1.1mA	V _{CC} = 5V I _F = 16mA R _L = 4.1kΩ	V _{CC} = 5V I _F = 0mA V _{OH} = 2V R _L = 4.1kΩ V _{CM} = 10Vp-p	V _{CC} = 5V I _F = 16mA V _{OL} = 0.8V R _L = 4.1kΩ V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (mA)	(%)	Max (V)	Max (μs)	Min (V/μs)	Min (V/μs)
ICPL0530	Dual Channel Optocoupler with a High Speed Photo Detector Transistor Output	3.75	-55 - 100	30 Note 1	20	No Connection	7-50	0.4	1.5	1000	1000
ICPL0531							19-50	0.4 I _O = 3mA	0.8 R _L = 1.9kΩ	1000 R _L = 1.9kΩ V _{CM} = 1500Vp-p	1000 R _L = 1.9kΩ V _{CM} = 1500Vp-p

Note 1 : V_{CC} is recommended to be bypassed by a 0.1μF capacitor

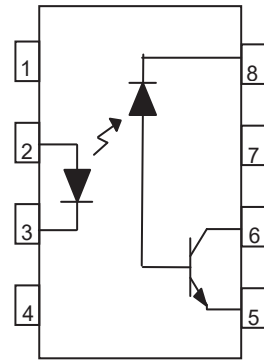
▶ DRAWINGS OVERLEAF

1Mbps/s High Speed Optocouplers

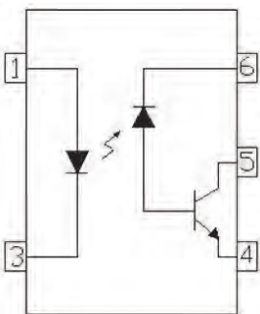
1Mbps Single Channel (Base Accessible)



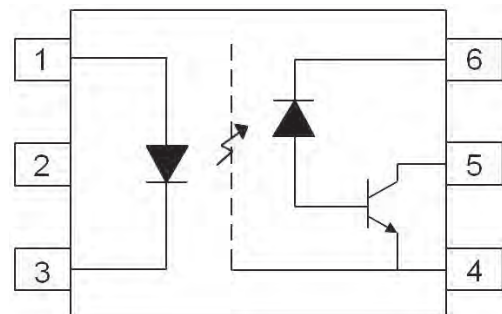
1Mbps Single Channel



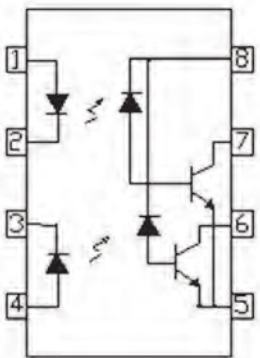
1Mbps 5 Pin Single Channel



1Mbps Stretched Body SO6 (Wide Lead Separation) Single Channel

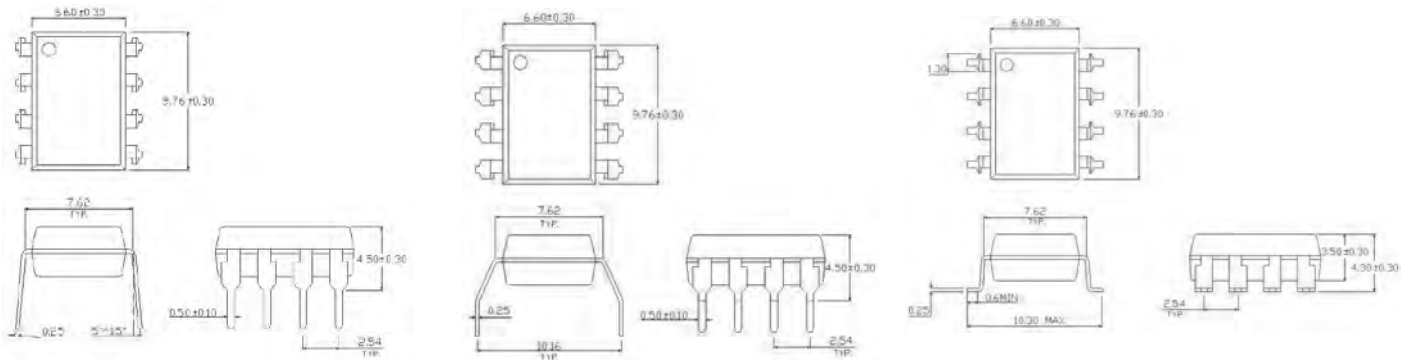


1Mbps Dual Channel

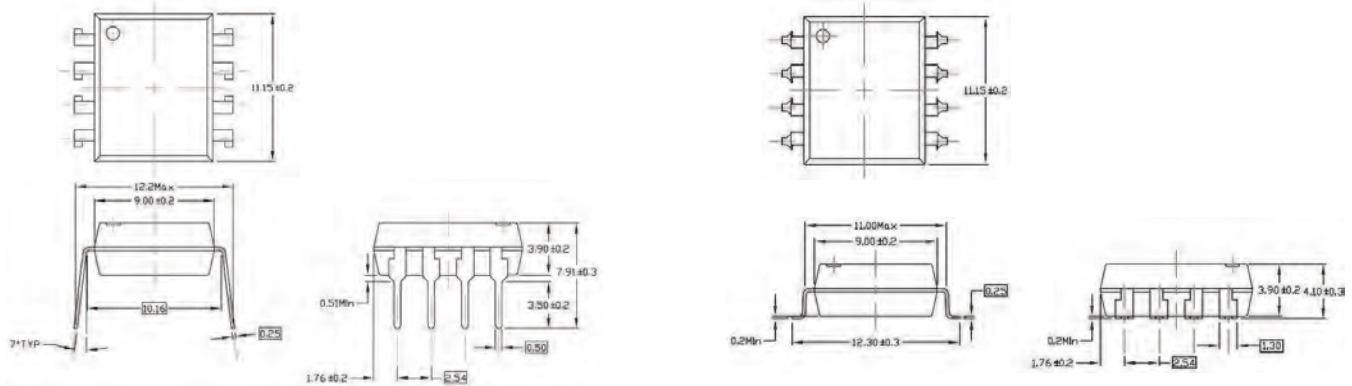


1Mbps/s High Speed Optocouplers

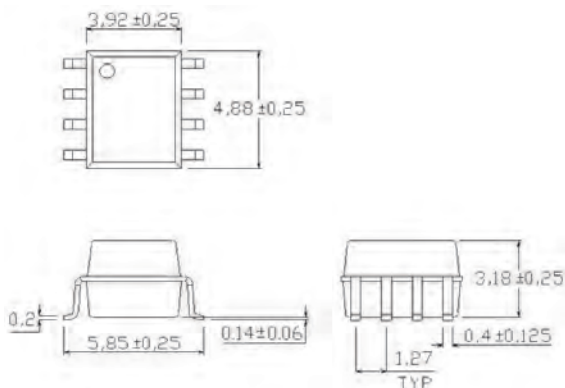
Standard Packages



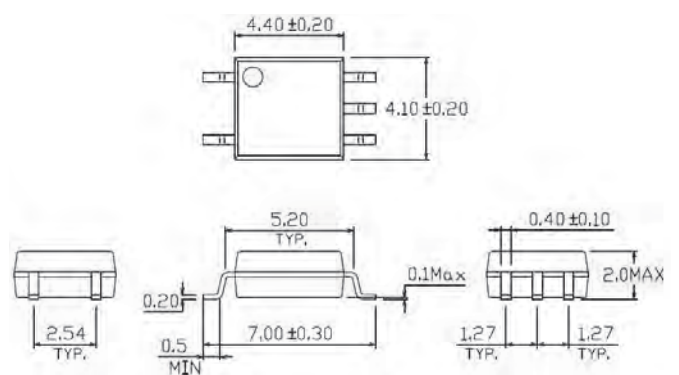
Wide Body Packages



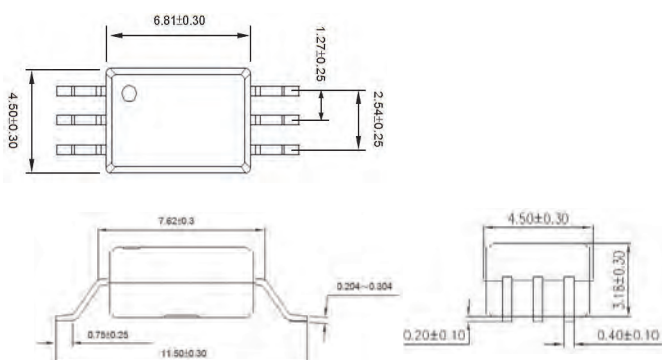
Half Pitch Package



5 Pin Half Pitch Package



Stretched Body SO6 (Wide Lead Separation) Package



10Mbps/s High Speed Optocouplers

Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	V _E	I _{FT}	V _{EH}	V _{EL}	V _{OL}	t _{PHL} , t _{PLH}	CM _H	CM _L
							V _{CC} = 5.5V V _E = 2.0V V _O = 0.6V I _{OL} = 13mA	V _{CC} = 5.5V I _F = 10mA	V _{CC} = 5.5V I _F = 10mA	V _{CC} = 5.5V V _E = 2.0V I _F = 5mA I _O = 13mA	V _{CC} = 5V I _F = 7.5mA R _L = 350Ω C _L = 15pF	I _F = 0mA V _{OH} = 2V R _L = 350Ω V _{CM} = 10Vp-p	I _F = 7.5mA V _{OL} = 0.8V R _L = 350Ω V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (V)	Max (mA)	Min (V)	Max (V)	Max (V)	Max (ns)	Min (V/μs)	Min (V/μs)
6N137	Single Channel Optocoupler with a High Speed Integrated Photo Detector Strobable Logic Gate Output	5	-40 - 85	7.0 Note 1	7.0	5.5 Note 2	5	2.0	0.8	0.6	75	5000 Ref	5000 Ref
ICPL2601												5000 V _{CM} = 50Vp-p	5000 V _{CM} = 50Vp-p
ICPL2611												10000 V _{CM} = 400Vp-p	10000 V _{CM} = 400Vp-p

Note 1 : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Note 2 : V_E = Max 0.5V above V_{CC}

Wide Body Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	V _E	I _{FT}	V _{EH}	V _{EL}	V _{OL}	t _{PHL} , t _{PLH}	CM _H	CM _L
							V _{CC} = 5.5V V _E = 2.0V V _O = 0.6V I _{OL} = 13mA	V _{CC} = 5.5V I _F = 10mA	V _{CC} = 5.5V I _F = 10mA	V _{CC} = 5.5V V _E = 2.0V I _F = 5mA I _O = 13mA	V _{CC} = 5V I _F = 7.5mA R _L = 350Ω C _L = 15pF	I _F = 0mA V _{OH} = 2V R _L = 350Ω V _{CM} = 10Vp-p	I _F = 7.5mA V _{OL} = 0.8V R _L = 350Ω V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (V)	Max (mA)	Min (V)	Max (V)	Max (V)	Max (ns)	Min (V/μs)	Min (V/μs)
ICPLW137	Single Channel Optocoupler with a High Speed Integrated Photo Detector Strobable Logic Gate Output	5	-40 - 85	7.0 Note 1	7.0	5.5 Note 2	5	2.0	0.8	0.6	100	5000 Ref	5000 Ref
ICPLW2601												5000 V _{CM} = 50Vp-p	5000 V _{CM} = 50Vp-p
ICPLW2611												10000 V _{CM} = 400Vp-p	10000 V _{CM} = 400Vp-p

Note 1 : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Note 2 : V_E = Max 0.5V above V_{CC}

Half Pitch Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	V _E	I _{FT}	V _{EH}	V _{EL}	V _{OL}	t _{PHL} , t _{PLH}	CM _H	CM _L
							V _{CC} = 5.5V V _E = 2.0V V _O = 0.6V I _{OL} = 13mA	V _{CC} = 5.5V I _F = 10mA	V _{CC} = 5.5V I _F = 10mA	V _{CC} = 5.5V V _E = 2.0V I _F = 5mA I _O = 13mA	V _{CC} = 5V I _F = 7.5mA R _L = 350Ω C _L = 15pF	I _F = 0mA V _{OH} = 2V R _L = 350Ω V _{CM} = 10Vp-p	I _F = 7.5mA V _{OL} = 0.8V R _L = 350Ω V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (V)	Max (mA)	Min (V)	Max (V)	Max (V)	Max (ns)	Min (V/μs)	Min (V/μs)
ICPL0600	Single Channel Optocoupler with a High Speed Integrated Photo Detector Strobable Logic Gate Output	3.75	-40 - 100	7.0 Note 1	7.0	5.5 Note 2	5	2.0	0.8	0.6	75	1000 Ref	1000 Ref
ICPL0601												5000 V _{CM} = 50Vp-p	5000 V _{CM} = 50Vp-p
ICPL0611												10000 V _{CM} = 400Vp-p	10000 V _{CM} = 400Vp-p

Note 1 : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Note 2 : V_E = Max 0.5V above V_{CC}

5 Pin Half Pitch Single Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	V _E	I _{FT}	V _{OL}	t _{PHL} , t _{PLH}	CM _H	CM _L
							V _{CC} = 5.5V V _O = 0.6V I _{OL} = 13mA	V _{CC} = 5.5V I _F = 5mA I _O = 13mA	V _{CC} = 5V I _F = 7.5mA R _L = 350Ω C _L = 15pF	I _F = 0mA V _{OH} = 2V R _L = 350Ω V _{CM} = 10Vp-p	I _F = 7.5mA V _{OL} = 0.8V R _L = 350Ω V _{CM} = 10Vp-p
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (V)	Max (mA)	Max (V)	Max (ns)	Min (V/μs)	Min (V/μs)
ICPLM600	Single Channel Optocoupler with a High Speed Integrated Photo Detector Logic Gate Output	3.75	-40 - 85	7.0 Note 1	7.0	No Connection	5	0.6	100	1000 Ref	1000 Ref
ICPLM601										5000 V _{CM} = 50Vp-p	5000 V _{CM} = 50Vp-p
ICPLM611										20000 V _{CM} = 1kVp-p	20000 V _{CM} = 1kVp-p

Note 1 : V_{CC} must be bypassed by a minimum 0.1μF capacitor

10Mbps/s High Speed Optocouplers

Dual Channel

Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	V _E	I _{FT}	V _{OL}	t _{PHL} , t _{PLH}	CM _H	CM _L
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (V)	Max (mA)	Max (V)	Max (ns)	Min (V/μs)	Min (V/μs)
ICPL2630	Dual Channel Optocoupler with a High Speed Integrated Photo Detector Logic Gate Output	5	-40 - 100	7.0	7.0	No Connection	5	0.6	100	5000	5000
ICPL2631				Note 1						10000	10000

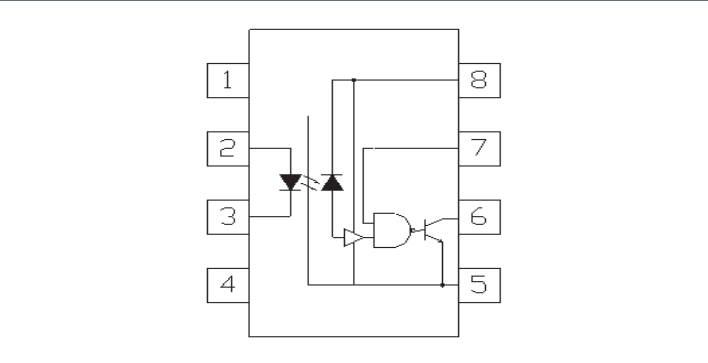
Note 1 : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Half Pitch Dual Channel

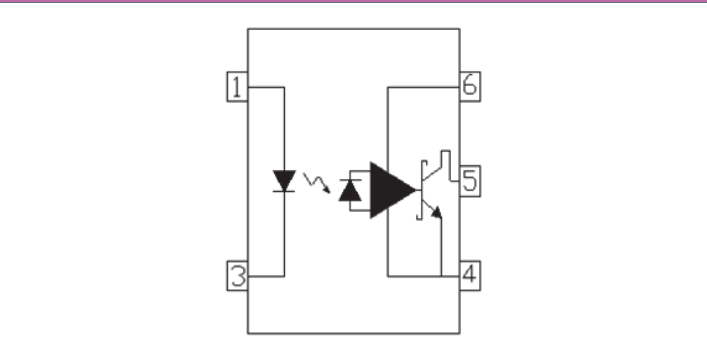
Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	V _E	I _{FT}	V _{OL}	t _{PHL} , t _{PLH}	CM _H	CM _L
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (V)	Max (mA)	Max (V)	Max (ns)	Min (V/μs)	Min (V/μs)
ICPL0630	Dual Channel Optocoupler with a High Speed Integrated Photo Detector Logic Gate Output	3.75	-40 - 100	7.0	7.0	No Connection	5	0.6	100	5000	5000
ICPL0631				Note 1						10000	10000

Note 1 : V_{CC} must be bypassed by a minimum 0.1μF capacitor

Single Channel

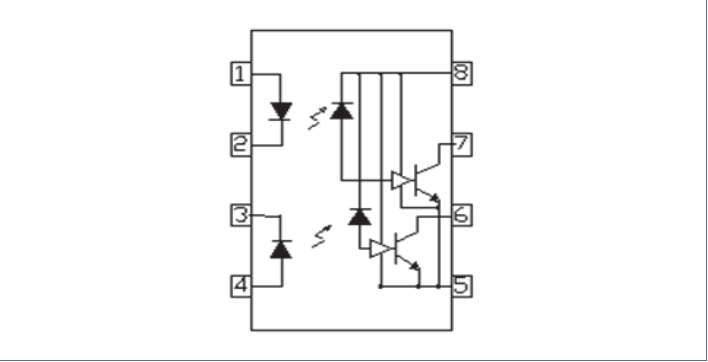


5 Pin Half Pitch Single Channel



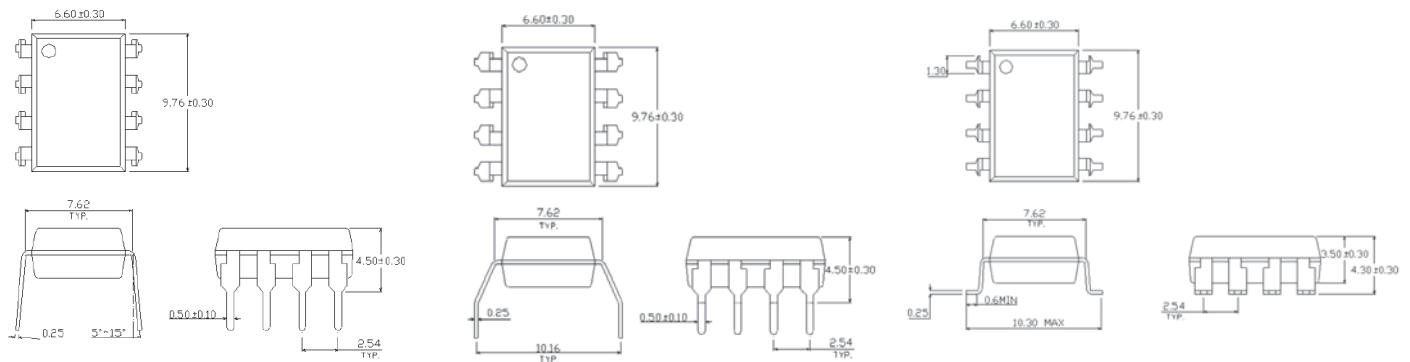
▶ DRAWINGS OVERLEAF

Dual Channel

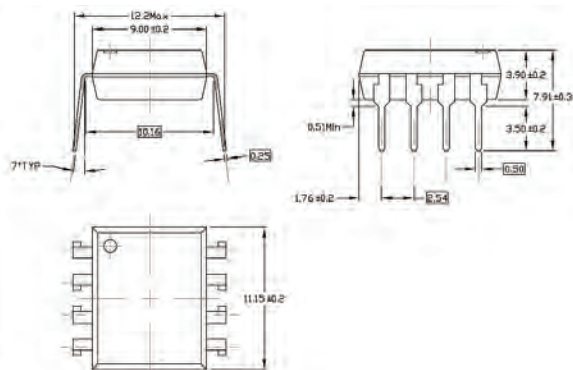


10Mbps/s High Speed Optocouplers

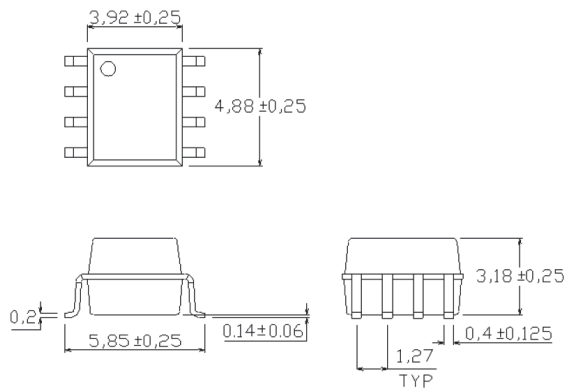
Standard Packages



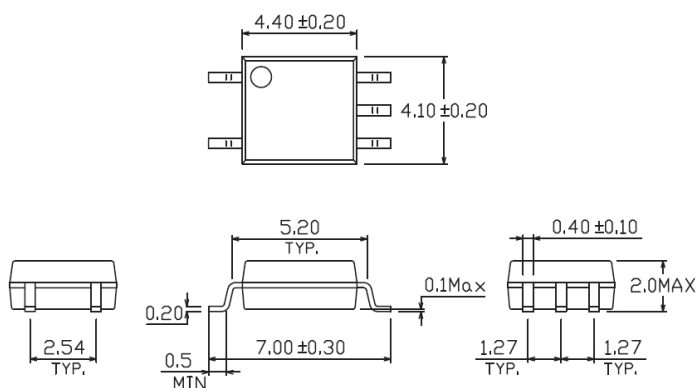
Wide Body Package



Half Pitch Package



5 Pin Half Pitch Package

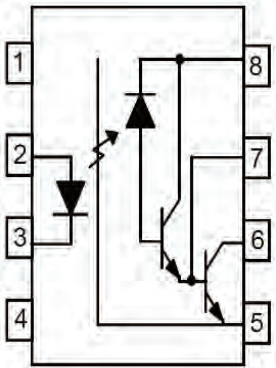


High Speed Split Darlington Optocoupler

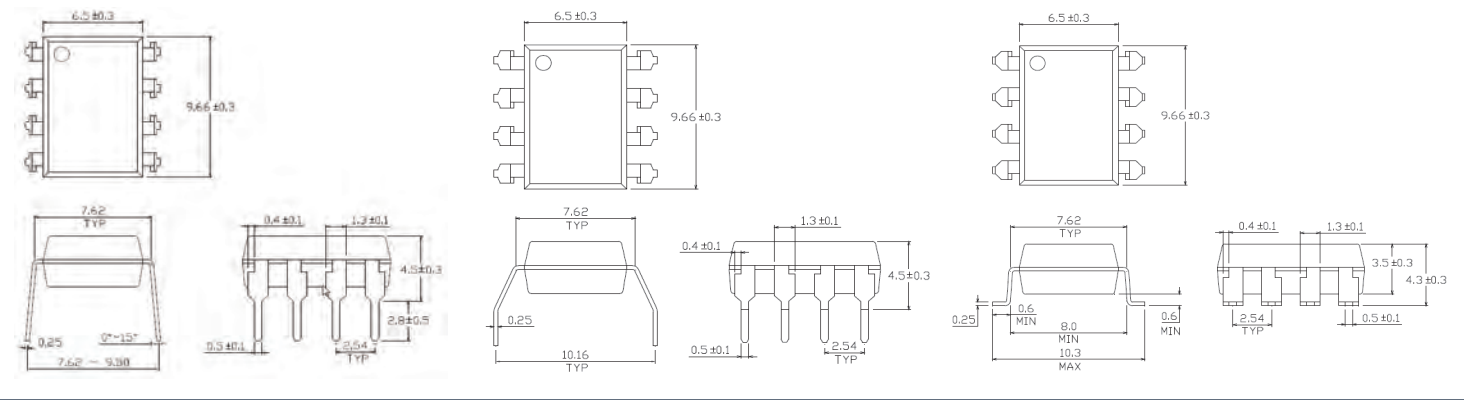
Single Channel												
Part Number	Features	Isolation Voltage	T _{OP}	V _{CC}	V _O	V _{ER}	Current Transfer Ratio	V _{OL}	t _{PLH}	t _{PHL}	CM _H	CM _L
		Min (KV _{RMS})	(°C)	Max (V)	Max (V)	Max (V)	V _{CC} = 4.5V I _F = 1.6mA V _O = 0.4V Min (%)	V _{CC} = 4.5V I _F = 1.6mA I _O = 4.8mA Max (V)	V _{CC} = 5V I _F = 1.6mA R _L = 2.2kΩ Max (μs)	V _{CC} = 5V I _F = 1.6mA R _L = 2.2kΩ Max (us)	V _{CC} = 5V I _F = 0mA V _{OH} > 2V R _L = 2.2kΩ V _{CM} = 10Vp-p Min (V/μs)	V _{CC} = 5V I _F = 1.6mA V _{OL} < 0.8V R _L = 2.2Ω V _{CM} = 10Vp-p Min (V/μs)
6N138	Single Channel Optocoupler with a High Speed High Gain Split Darlington Transistor Output	5	-55 - 85	7	7	0.5	300	0.4	35	10	1000	1000
6N139				Note 1		Note 2						
				18	18		400 I _F = 0.5mA	0.4 I _F = 0.5mA I _O = 2mA	60 I _F = 0.5mA R _L = 4.7kΩ	25 I _F = 0.5mA R _L = 4.7kΩ	1000	1000

Note 1 : V_{CC} is recommended to be bypassed by a 0.1μF capacitor
Note 2 : V_{ER} = Emitter to Base Reverse Voltage

High Speed Split Darlington



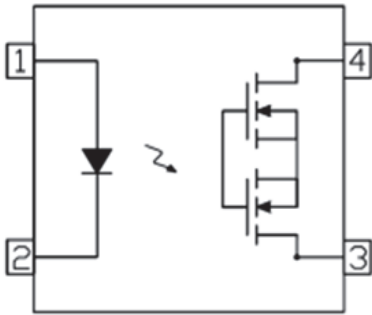
Standard Packages



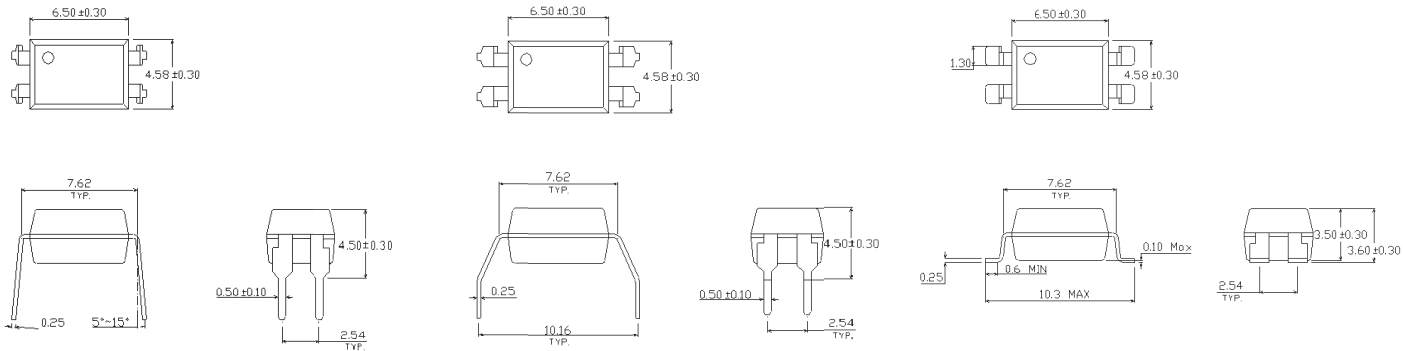
4 Pin Solid State Relay (PhotoMOS)

1 Form A											
Part Number	Features	Isolation Voltage	T _{OP}	V _L	I _L	I _L (PEAK) t = 100ms	I _F (ON)	I _F (OFF)	R _D (ON)	T _{ON}	T _{OFF}
		Min (KV _{RMS})	(°C)	Max (V)	Max (mA)	Max (A)	Max (mA)	Min (mA)	Max (Ω)	Max (ms)	Max (ms)
ISP06	Single Channel Single Pole Single Throw Normally Open Optocoupler	5	-40 - 85	60	550	1.2	5	0.4	2.5	3	0.5
ISP25				250	180	0.5			15		
ISP40				400	120	0.3			30		
ISP60				600	50	0.15			70		

4 Pin Solid State Relay



Standard Packages



6 Pin Solid State Relay (PhotoMOS)

1 Form A

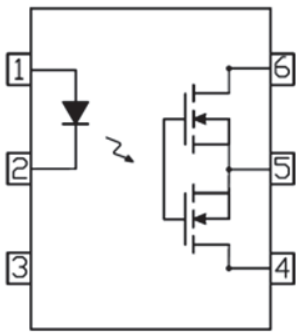
Part Number	Features	Isolation Voltage	T _{OP}	Continuous Forward Current	V _L	I _L	I _L (PEAK) t = 100ms	I _F (ON)	I _F (OFF)	T _{ON} I _F = 10mA I _L = Max R _L = 200Ω	T _{OFF} I _F = 10mA I _L = Max R _L = 200Ω
		Min (KV _{RMS})	(°C)	Max (mA)	Max (V)	Max (mA)	Max (A)	Max (mA)	Min (mA)	Max (ms)	Max (ms)
IS06	Single Channel Single Pole Single Throw Normally Open Optocoupler	5	-40 - 85	50	60	550	1.2	3	0.4	3	0.5
IS25					250	180	0.5				
IS40					400	120	0.3				
IS60					600	50	0.15				

▶ DRAWINGS OVERLEAF

R_{D(On)}

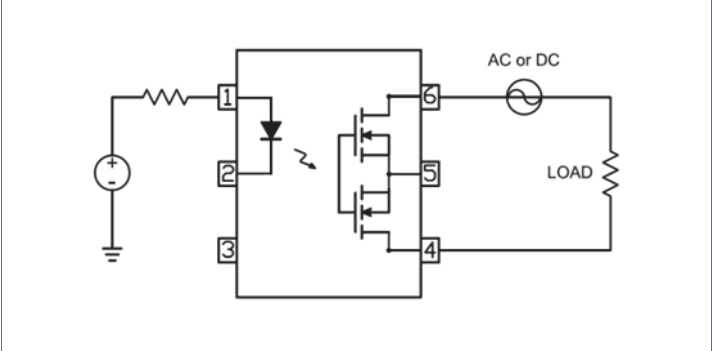
Part Number	R _{D(ON)A} I _F = 5mA, I _L = Max t = 1s Output Configuration A Max (Ω)	R _{D(ON)B} I _F = 5mA, I _L = Max t = 1s Output Configuration B Max (Ω)	R _{D(ON)C} I _F = 5mA, I _L = Max t = 1s Output Configuration C Max (Ω)
IS06	2.5	1	0.5
IS25	15	5	3
IS40	30	20	15
IS60	70	50	30

6 Pin Solid State Relay

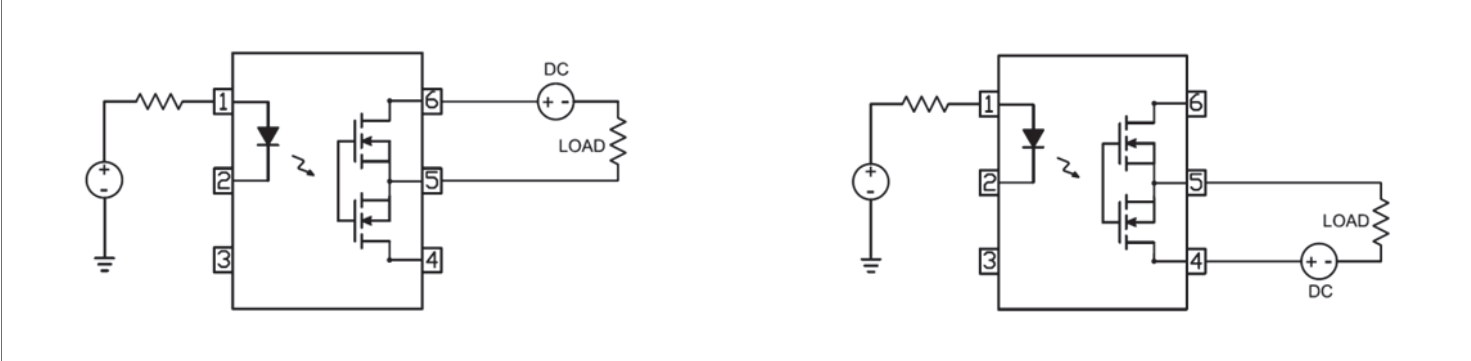


6 Pin Solid State Relay (PhotoMOS)

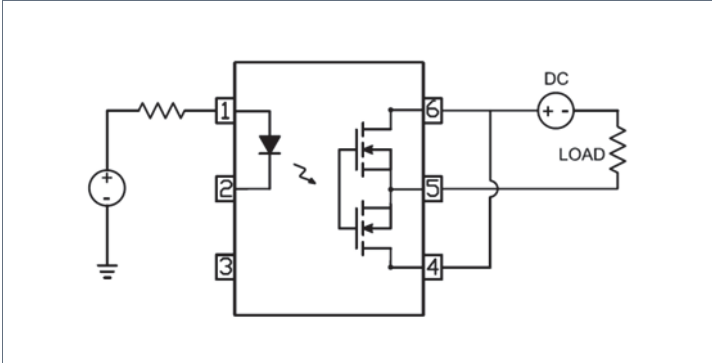
Output Configuration A



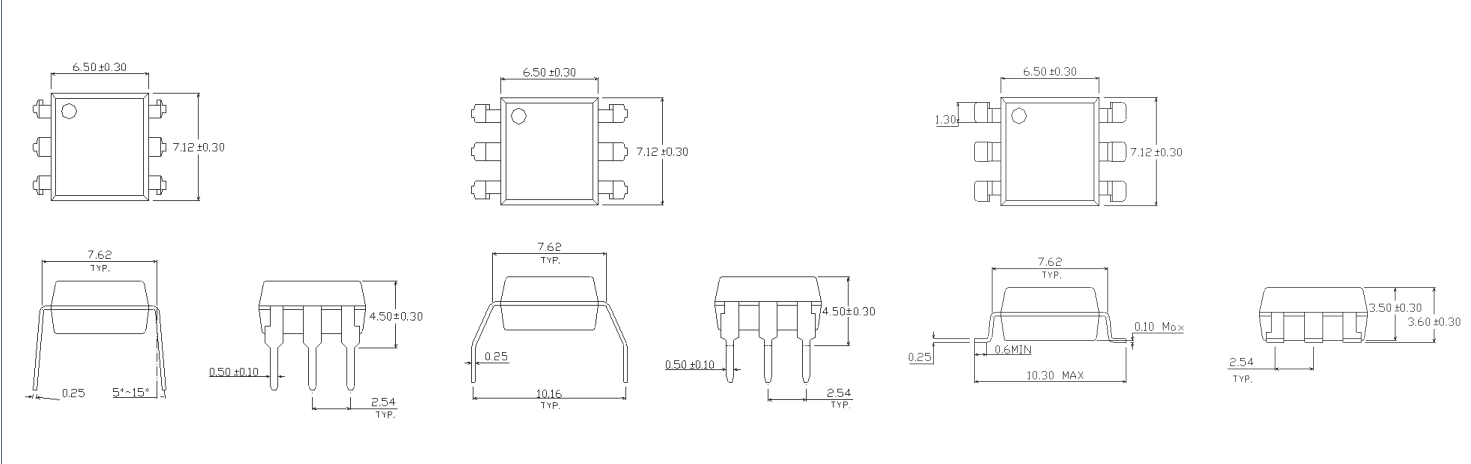
Output Configuration B



Output Configuration C



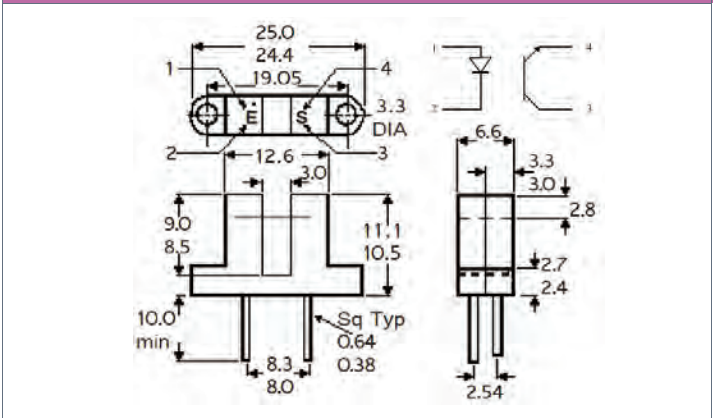
Standard Packages



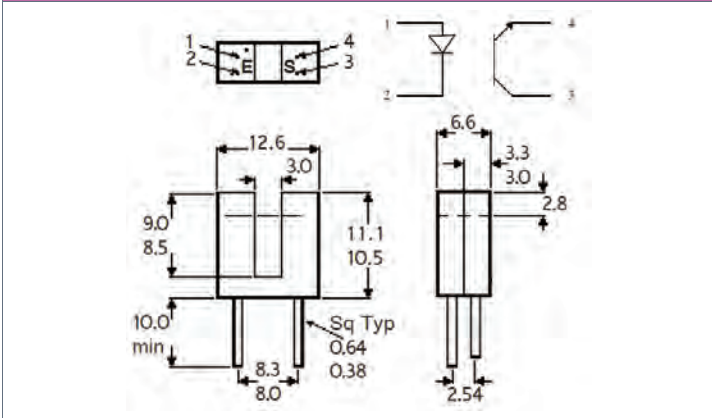
4 Pin Transistor Output

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Slot Width	Continuous Forward Current	V_F $I_F = 50\text{mA}$	BV_{CEO} $I_C = 1\text{mA}$	I_{CEO} $V_{CE} = 10\text{V}$	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 1.8\text{mA}$
		Min (%)	(mm)	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
H21A1	Single channel Optical Switch with Phototransistor Output	3	3.0	50	1.7	30	100	0.4 $I_F = 30\text{mA}$ $I_C = 1.8\text{mA}$
H21A2		6						0.4
H21A3		12						
H22A1		3						0.4 $I_F = 30\text{mA}$ $I_C = 1.8\text{mA}$
H22A2		6						0.4
H22A3		12						
ISTS105A		2.5 $I_F = 20\text{mA}$ $V_{CE} = 5\text{V}$	5.2		1.6 $I_F = 20\text{mA}$			0.4 $I_F = 20\text{mA}$ $I_C = 0.25\text{mA}$

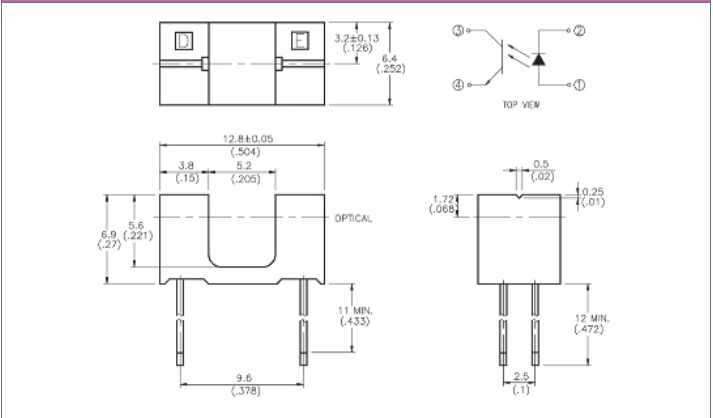
H21A1 / H21A2 / H21A3



H22A1 / H22A2 / H22A3



ISTS105A



Cross List

Isocom	Avago	Fairchild	SHARP	NEC	Toshiba
6N135	6N135	6N135			
6N136	6N136	6N136			
6N137	6N137	6N137			
6N138	6N138	6N138			
6N139	6N139	6N139			
ICPL3120	HCPL-3120				
ICPLW137	HCNW137				
ICPLW2601	HCNW2601				
ICPLW2611	HCNW2611				
ICPL2601	HCPL2601	HCPL2601			TLP554 TLP2601
ICPL2611	HCPL2611	HCPL2611		PS9587	
ICPLM600	HCPLM600				
ICPLM601	HCPLM601				TLP113 TLP115 TLP115A
ICPLM611	HCPLM611	FODM611	PC410L	PS9117A	
ICPL0630	HCPL0630	HCPL0637			
ICPL0631	HCPL0631	HCPL0638	PC4D10		
ICPL0661	HCPL0661	HCPL0639		PS9817A-2	
ICPL0600	HCPL0600	HCPL0600			
ICPL0601	HCPL0601	HCPL0601			
ICPL0611	HCPL0611	HCPL0611	PC410S	PS9817A-1	
ICPL2630	HCPL2630	HCPL2630			TLP2630
ICPL2631	HCPL2631	HCPL2631			TLP2631
ICPL2661	HCPL2661				
ICPLW135	HCNW135				
ICPLW136	HCNW136				
ICPL0500	HCPL0500	HCPL0500			
ICPL0501	HCPL0501	HCPL0501			
ICPL0530	HCPL0530	HCPL0530			
ICPL0531	HCPL0531	HCPL0531			
ICPL2530	HCPL2530	HCPL2530			TLP2530
ICPL2531	HCPL2531	HCPL2531			TLP2531
ICPL4502		HCPL4502			TLP559 TLP750 TLP759
ICPL4503		HCPL4503			
ICPLW4503	HCNW4503				
ICPLM452		FODM452			TLP112 TLP112A TLP114A
ICPLM453		FODM453	PC457	PS8101	
ICPL0452		HCPL0452			
ICPL0453		HCPL0453	PC457S		



**Special Selections • Just-In-Time Delivery • Superior Service
Short Lead Times • Unbeatable Quality • Technical Support**

If your required part number is not shown please contact us to discuss your requirements.

All parts conform to the EU RoHS Directive 2011/65/EU

Lead Form & Packaging Options

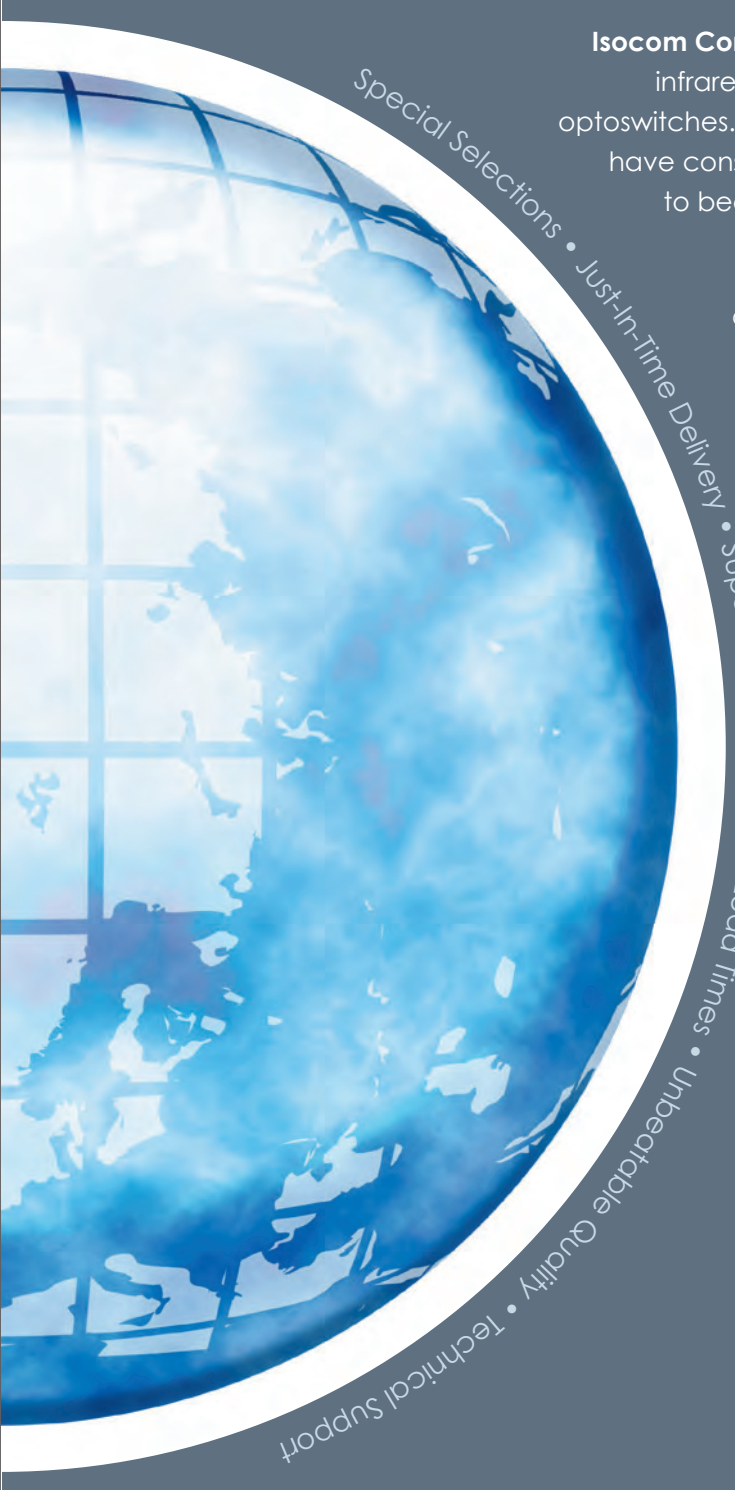
- All devices are supplied in tubes in standard straight lead form unless specified
- All devices are available in 10.16mm lead spread to ensure a minimum creepage distance of 8.0mm
- All devices are available in surface mount lead form (SMD)
- All surface mount devices are available in Tape and Reel packaging

How to Order

- For VDE approval, add the suffix **X** to the required part number (e.g. ISP817X)
- For 10.16mm lead spread, add the suffix **G** to the required part number (e.g. ISP817XG)
- For surface mount option, add the suffix **SM** to the required part number (e.g. ISP817XSM)
- For tape and reel packaging, add the suffix **T&R** to the required part number (e.g. ISP817XSMT&R)

For Price and Delivery

- Call ISOCOM COMPONENTS direct on **+44 (0)1429 863609** or email your requirements to sales@isocom.co.uk, or
- Contact your local ISOCOM COMPONENTS distributor, visit www.isocom.com for further details



Isocom Components is a leading manufacturer of high performance infrared optoelectronic devices specialising in optocouplers and optoswitches. Since the business was established over 25 years ago, we have consistently delivered in excess of our customers expectations to become one of the most respected brands in the worldwide optoelectronic industry.

Our expert knowledge and flexible manufacturing processes result in the shortest production lead times in the world for many parts. Our product quality and superior customer service is unrivalled and is endorsed by our many long standing customers.

Isocom Components is your natural alternative to all popular commercial optocoupler industry standard types including many no longer supplied by other manufacturers. In addition, we carry out special parametric selections to meet customers' specific design requirements.

Our parts are available approved to the leading recognised industry standards and all devices are supplied in various lead forms and Tape and Reel packaging if required.

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VDE



NEMKO