ISOCOM COMPONENTS

Manufacturer of Optocouplers / Optoisolators

www.isocom.com


ISOCOM
COMPONENTS

Welcome to the ***Isocom Components*** *Shortform Catalogue*

Contents

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 highest 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 hystersis 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

Index - Popular Part No. Many More Available

4 Pin DIL & SMD Optocouplers

Transistor Output

Part Number	Features	Current Transfer Ratio I_F = 5mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} I_R=10µA Min (V)	BV_{CEO} I_C=0.5mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V Max (nA)	$V_{CE(SAT)}$ I_F=8mA I_C=2.4mA 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						
ISP817		50-600				35		0.2(I_F=20mA) (I_C=1mA)
ISP624-1		100-1200[1]				55		0.4(I_F=1mA) (I_C=0.5mA)
PS2501-1		80-600				80		0.3(I_F=10mA) (I_C=2mA)
SFH615A-1		40-80/13 (I_F=10mA/1mA)				70	50 (V_{CE}=10V)	0.4(I_F=10mA) (I_C=2.5mA)
SFH615A-2		63-125/22 (I_F=10mA/1mA)						
SFH615A-3		100-200/34 (I_F=10mA/1mA)					100 (V_{CE}=10V)	
SFH615A-4		160-320/56 (I_F=10mA/1mA)						
SFH617A-1		40-80/13 (I_F=10mA/1mA)					50 (V_{CE}=10V)	
SFH617A-2		63-125/22 (I_F=10mA/1mA)						
SFH617A-3		100-200/34 (I_F=10mA/1mA)					100 (V_{CE}=10V)	
SFH617A-4		160-320/56 (I_F=10mA/1mA)						
SFH618A-2		63-125[1]				55	50 (V_{CE}=10V)	0.4(I_F=1mA) (I_C=0.32mA)
SFH618A-3		100-200[1]						0.4(I_F=1mA) (I_C=0.5mA)
SFH618A-4		160-320[1]					100 (V_{CE}=10V)	0.4(I_F=1mA) (I_C=0.8mA)
SFH618A-5		250-500[1]						0.4(I_F=1mA) (I_C=1.25mA)
TIL191		20				35		0.4(I_F=5mA) (I_C=1mA)
TIL191A		50						
TIL191B		100						
TLP321		50-600				80		0.4
TLP521		50-600						
TLP621		50-600				55		
TLP624		100-1200[1]						0.4(I_F=1mA) (I_C=0.5mA)

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

AC Input

Part Number	Features	Current Transfer Ratio I_F = ±10mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F I_F=±20mA Max (V)	BV_{CEO} I_C=1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V 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=0.5mA)	100 (V_{CE}=24V)	0.4(I_F=±8mA) (I_C=2.4mA)
ISP626-1		100[2] 50[3]						0.4(I_F=±1mA) (I_C=0.5mA)
ISP814		20-300[4]				35	100	0.2(I_F=±20mA) (I_C=1mA)
ISP814-1		80[5]				70		0.4(I_F=±1mA) (I_C=0.8mA)
ISP814-2		/40/80[5]						0.4(I_F=±0.5mA) (I_C=0.2mA)
ISP814-3		20/40/80[5]						0.4(I_F=±0.25mA) (I_C=0.05mA)
PS2505-1		80-600				80	100 (V_{CE}=40V)	0.3(I_F=±10mA) (I_C=2mA)
SFH620-1		40-125				70	50	0.4(I_F=±10mA) (I_C=2.5mA)
SFH620-2		63-200						
SFH620-3		100-320					100	
SFH620A-1		40-125					50	
SFH620A-2		63-200					100	
SFH620A-3		100-320						
SFH628-2		63-200[2]				55	200 (V_{CE}=10V)	0.4(I_F=±1mA) (I_C=0.5mA)
SFH628-3		100-320[2]						0.4(I_F=±1mA) (I_C=0.8mA)
SFH628-4		160-500[2]						0.4(I_F=±1mA) (I_C=1.25mA)

4 Pin DIL & SMD Optocouplers

AC Input

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

Note 1 Test condition: I_F = ±5mA
Note 2 Test condition: I_F = ±1mA, V_{CE} =0.5V
Note 3 Test condition: I_F = ±0.5mA, V_{CE} =1.5V
Note 4 Test condition: I_F = ±1mA
Note 5 Test condition: I_F = ±0.25 / ±0.5 / ±1mA, V_{CE} =5V

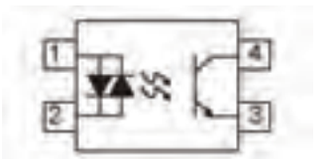
Darlington Output

Part Number	Features	Current Transfer Ratio I_F = 1mA V_{CE}=1V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F I_F=20mA Max (V)	V_{BR} I_R=10uA Min (V)	BV_{CEO} I_C=1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=10V Max (nA)	$V_{CE(SAT)}$ Max (V)
ISP627-1	Single channel Optocoupler with a Photo-Darlington Transistor	1000	7.5(pk) 5.3(rms)	50mA	1.4	6	300 (I_C=1mA)	200 (V_{CE}=200V)	1.2(I_F=10mA) (I_C=100mA)
ISP815		600-7500 (V_{CE}=2V)					35 (I_C=0.1mA)	100	1(I_F=20mA) (I_C=5mA)
ISP815-1		/800[1]					70		1(I_F=1mA) (I_C=8mA)
ISP815-2		/400/800[1]							1(I_F=0.5mA) (I_C=2mA)
ISP815-3		200/400/800[1]							1(I_F=0.25mA) (I_C=0.5mA)
PS2502-1		200-2000					80		1(I_F=1mA) (I_C=2mA)
TIL197		500-7500 (I_F=2mA)					35		1(I_F=2mA) (I_C=10mA)
TIL197A		1000-7500 (I_F=2mA)							
TIL197B		1500-7500 (I_F=2mA)							
TLP627-1		1000					300 (I_C=1mA)	200 (V_{CE}=200V)	1.2(I_F=10mA) (I_C=100mA)

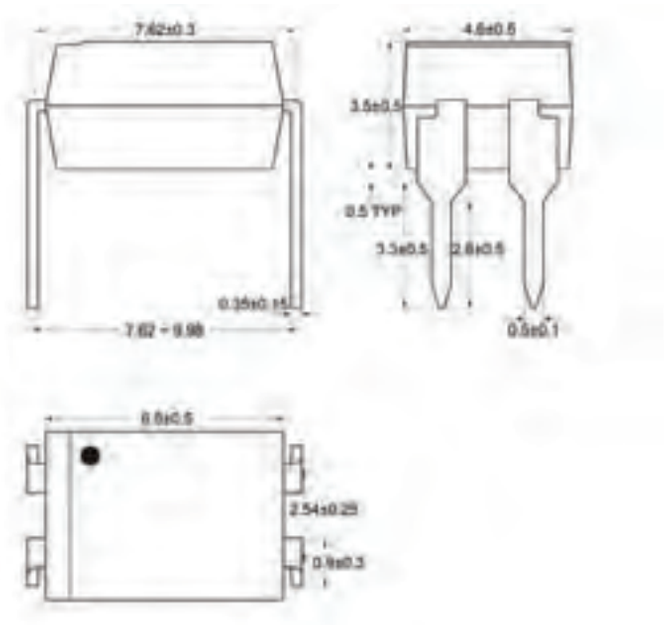
Note 1 Test condition: I_F = ±0.25 / ±0.5 / ±1mA, V_{CE} =1V
Note 2 Test condition: Device has a reverse biased diode connected between pin 3 and 4 giving high breakdown stability

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		10						
4N28								
4N35		100						0.3(I_F=10mA) (I_C=0.5mA)
4N36								
4N37								
4N38		20 (V_{CE}=1V)				80	50 (V_{CE}=60V)	1.0(I_F=20mA) (I_C=4mA)
4N38A								
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		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)						
CQY80		50 (V_{CE}=5V)				32	200 (V_{CE}=20V)	
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		0.4(I_F=20mA) (I_C=2mA)
H11AV2		50						
H11AV3		20						
IL1		20-300				50		0.4(I_F=16mA) (I_C=2mA)
IL2		100-500				70		
IL5		50-400						
IL74		12.5 (I_F=16mA)				50		
IS1		20						
IS2		100						
IS201		75/10 (I_F=10mA/1mA)				70		0.4(I_F=10mA) (I_C=2mA)
IS202		125-250/30 (I_F=10mA/1mA)						
IS203		225-450/30 (I_F=10mA/1mA)						
IS204		200-400 (I_F=10mA/1mA)						
IS204-1		/50[1]					100	0.4(I_F=1mA) (I_C=0.5mA)
IS204-2		50/[2]						
IS204-3		70[2]/100[1]						
IS5		50-400				70	50	0.4(I_F=16mA) (I_C=2mA)
IS74		12.5 (I_F=16mA)				50		
MCT2		20				30		
MCT2E		50						
MCT210		50 (I_F=3.2-32mA) (V_{CE}=0.4V)						
MCT2200		20 (V_{CE}=5V)						0.4(I_F=10mA) (I_C=2.5mA)
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								
TIL116		20						0.4(I_F=15mA) (I_C=2.2mA)
TIL117		50						0.4(I_F=10mA) (I_C=0.5mA)

Transistor Output - Non Base

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}=20V Max (nA)	$V_{CE(SAT)}$ Max (V)
CNX62A	Single channel Optocoupler with a Phototransistor Output with base lead not connected for improved noise immunity	40 (V_{CE}=0.4V)	7.5(pk) 5.3(rms)	50mA	1.4	50	100	0.4(I_F=10mA) (I_C=4mA)
CNX82A								
CNY17F-1		40-80 (V_{CE}=5V)				70		0.4(I_F=10mA) (I_C=2.5mA)
CNY17F-2		63-125 (V_{CE}=5V)						
CNY17F-3		100-200 (V_{CE}=5V)						
CNY17F-4		160-320 (V_{CE}=5V)						
CNY17F-5		200-400 (V_{CE}=5V)						
IS205		100				50		0.4(I_F=10mA) (I_C=0.5mA)
IS205-1		/50[1]				70		0.4(I_F=1mA) (I_C=0.5mA)
IS205-2		50/[2]						
IS205-3		70[2]/100[1]						
IS206		50				50		0.4(I_F=10mA) (I_C=0.5mA)
MOC8101		50-80						0.4(I_F=5mA) (I_C=0.5mA)
MOC8102		73-117						

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

DRAWINGS OVERLEAF

6 Pin DIL & SMD Optocouplers cont.

Transistor Output - Non Base

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}=20V Max (nA)	$V_{CE(SAT)}$ 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=5mA) (I_C=0.5mA)
MOC8104		160-256						
MOC8105		65-133						
MOC8106		50-150						
MOC8107		100-300						
MOC8108		250-600						
MOC8111		20						0.4(I_F=5mA) (I_C=1mA)
MOC8112		50						
MOC8113		100						

AC Input

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=±20mA Max (V)	BV_{CEO} I_C=0.1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=10V Max (nA)	$V_{CE(SAT)}$ I_F=±10mA I_C=0.5mA 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)	±50mA	1.4	30	50	0.4
H11AA1		20						
H11AA2		10						
H11AA3		50						
H11AA4		100						
IS604		50						
IS733		20-300 (I_F=1mA) (V_{CE}=5V)				35	100 (V_{CE}=20V)	0.2(I_F=±20mA) (I_C=1mA)

Darlington 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=50mA Max (V)	BV_{CEO} I_C=1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=10V Max (nA)	$V_{CE(SAT)}$ I_F=8mA I_C=2mA 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								
4N31		50						1.2
4N32		500						1
4N33								
H11B1		500 (I_F=1mA) (V_{CE}=5V)						1.0(I_F=1mA) (I_C=1mA)
H11B2		200 (I_F=1mA) (V_{CE}=5V)						
H11B3		100 (I_F=1mA) (V_{CE}=5V)						
MCA2230		100 (V_{CE}=5V)						1.0(I_F=50mA) (I_C=50mA)
MCA2231		500 (V_{CE}=5V)						1.0(I_F=1mA) (I_C=2mA)
MCA2255						55		1.0(I_F=50mA) (I_C=50mA)
MCA255		100 (V_{CE}=5V)						
MCA230						30		
MCA231								
MOC8080		500 (V_{CE}=5V)				55		1.0(I_F=1mA) (I_C=1mA)
TIL113		500 (V_{CE}=1V)				30		1.0(I_F=50mA) (I_C=50mA)

6 Pin DIL & SMD Optocouplers

Darlington Output - Non Base

Part Number	Features	Current Transfer Ratio I_F = 1mA V_{CE} = 2V 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)
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=0.1mA)	100	1.0(I_F=10mA) (I_C=10mA)
ISPD61		500						
ISPD62		1000						
ISPD63		100						
ISPD64		500						
ISPD65		1000						
MOC8020		500 (I_F=10mA) (V_{CE}=5V)				50		
MOC8021		1000 (I_F=10mA) (V_{CE}=5V)						
MOC8030		300 (I_F=10mA) (V_{CE}=5V)				80		
MOC8050		500 (I_F=10mA) (V_{CE}=5V)						
TIL119		300 (I_F=10mA) (V_{CE}=1V)				30		1.0(I_F=10mA) (I_C=30mA)

Darlington Output - Base Connected High Voltage

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)	$I_{CEO(Dark)}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
H11G1	Single channel Optocoupler with a Photo-Darlington Transistor with a high operating voltage	1000 (I_F=1mA) (V_{CE}=5V)	7.5(pk) 5.3(rms)	50	1.4	100	100 (V_{CE}=80V)	1.0 (I_F=1mA) (I_C=1mA)
H11G2						80	100 (V_{CE}=60V)	
H11G3		200 (I_F=1mA) (V_{CE}=5V)				55	100 (V_{CE}=30V)	1.2(I_F=20mA) (I_C=50mA)
IS4N45		250 (I_F=1mA) (V_{CE}=1V)					100 (V_{CE}=55V)	1.0(I_F=1mA) (I_{OL}=2.5mA)
IS4N46		500 (I_F=1mA) (V_{CE}=1V)						1.0(I_F=0.5mA) (I_{OL}=1.75mA)
IS660		1000 (I_F=1mA) (V_{CE}=5V)				200	1000 (V_{CE}=200V)	1.2(I_F=20mA) (I_C=100mA)
IS661						300		
IS725								

Transistor Output

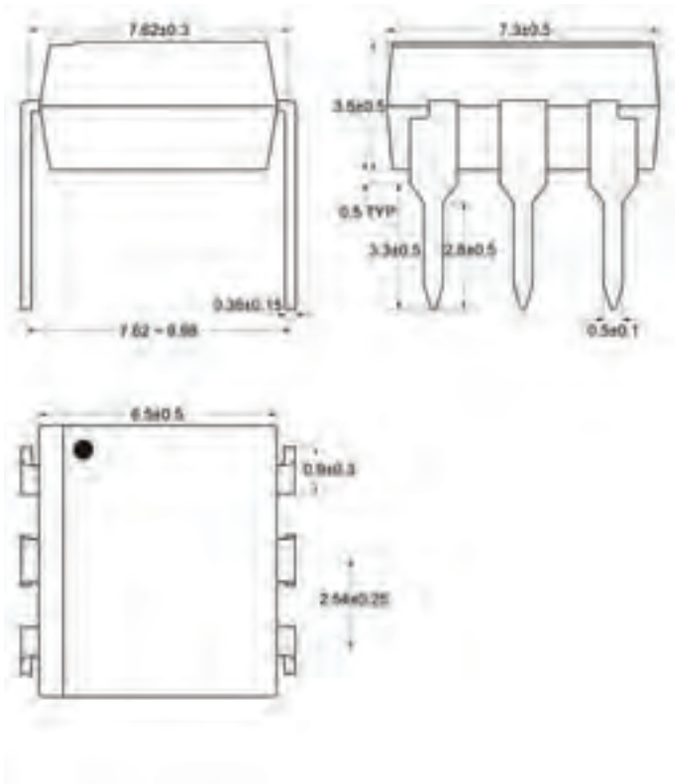
Transistor Output - Non Base

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 = 5mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} I_R=10µA Min (V)	BV_{CEO} I_C=0.5mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V Max (nA)	$V_{CE(SAT)}$ I_F=8mA I_C=2.4mA 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						
ISP827		50-600				35		0.2(I_F=20mA) (I_C=1mA)
ISP624-2		100-1200[1]				55		0.4(I_F=1mA) (I_C=0.5mA)
PS2501-2		80-600				80		0.3(I_F=10mA) (I_C=2mA)
TIL192		20				35		0.4(I_F=5mA) (I_C=1mA)
TIL192A		50						
TIL192B		100						
TLP321-2		50-600				80		0.4
TLP521-2		50-600						
TLP621-2		50-600				55		
TLP624-2		50-600						0.4(I_F=1mA) (I_C=0.5mA)

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

AC Input

Part Number	Features	Current Transfer Ratio I_F = ±10mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F I_F=±20mA Max (V)	BV_{CEO} I_C=1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V Max (nA)	$V_{CE(SAT)}$ 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=0.5mA)	100 (V_{CE}=24V)	0.4(I_F=±8mA) (I_C=2.4mA)
ISP626-2		100-1200[2] 50[3]						0.4(I_F=±1mA) (I_C=0.5mA)
ISP824		20-300[4]				35	100	0.2(I_F=±20mA) (I_C=1mA)
PS2505-2		80-600				80	100 (V_{CE}=40V)	0.3(I_F=±10mA) (I_C=2mA)
TIL195		20				35	100 (V_{CE}=24V)	0.4(I_F=±5mA) (I_C=1mA)
TIL195A		50						
TIL195B		100						
TLP620-2		40-125[1]				55		0.4(I_F=±8mA) (I_C=2.4mA)
TLP626-2		100-1200[2] 50[3]						0.4(I_F=±1mA) (I_C=0.5mA)

Note 1 Test condition: I_F = ±5mA
Note 2 Test condition: I_F = ±1mA, V_{CE} =0.5V
Note 3 Test condition: I_F = ±0.5mA, V_{CE} =1.5V
Note 4 Test conditions: I_F = ±1mA

Darlington Output

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

Note 1 Test condition: I_F = 1mA, V_{CE} =1V
Note 2 Test condition: I_F = 0.5mA, V_{CE} =1V
Note 3 Test condition: I_F = 0.25mA, V_{CE} =1V

8 Pin DIL & SMD Optocouplers

8 Pin Transistor Symmetrical Configuration DIL & SMD Optocouplers								
Part Number	Features	Current Transfer Ratio I_F = 10mA V_{CE} = 10V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} I_R=10µA Min (V)	BV_{CEO} I_C=1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=10V Max (nA)	$V_{CE(SAT)}$ I_F=16mA I_C=2mA 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						
ILD74		12.5 (I_F=16mA V_{CE}=5V)				50		
IS829		50 (I_F=5mA V_{CE}=5V)				35	100 (V_{CE}=24V)	0.2(I_F=20mA) (I_C=1mA)
ISD1		20				50	50	0.3(I_F=10mA) (I_C=2mA)
ISD2		100-500				70		0.4(I_F=5mA) (I_C=1mA)
ISD5		50						0.4
ISD74		12.5 (I_F=16mA V_{CE}=5V)				50		
MCT6		20			3	30	100	
MCT61		50 (I_F=5mA V_{CE}=5V)						
MCT62		100 (I_F=5mA V_{CE}=5V)						
MCT66		6						
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=10mA) (I_C=2mA)
ISD202		125-250 (30)[1]						
ISD203		225-450 (50)[1]						
ISD204		200-400 (100)[1]						
ISD204-1		/50[2]						0.4(I_F=1mA) (I_C=0.5mA)
ISD204-2		50/[3]						0.4(I_F=0.5mA) (I_C=0.25mA)
ISD204-3		70[3]/100[2]						0.4(I_F=0.5mA) (I_C=0.35mA)

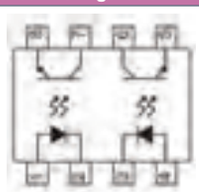
Note 1 Test condition : I_F = 1mA
Note 2 Test condition : I_F = 1mA, V_{CE}=0.4V
Note 3 Test condition : I_F = 0.5mA, V_{CE}=0.4V

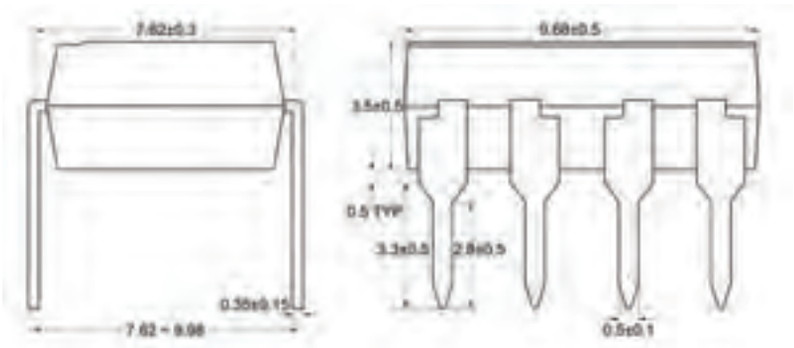
Transistor Output

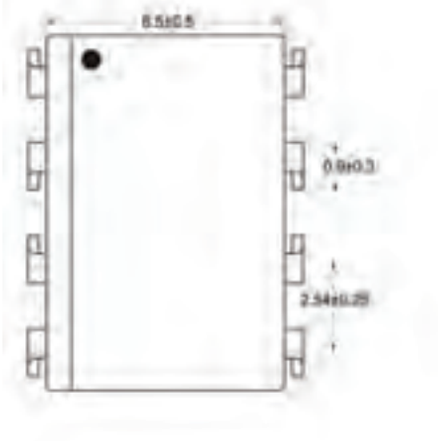
AC Input

Darlington Output

Symmetrical Configuration







16 Pin DIL & SMD Optocouplers

Transistor Output

Part Number	Features	Current Transfer Ratio I_F = 5mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} I_R=10µA Min (V)	BV_{CEO} I_C=0.5mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V Max (nA)	$V_{CE(SAT)}$ I_F=8mA I_C=2.4mA 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						
ISP847		50-600				35		0.2(I_F=20mA) (I_C=1mA)
ISP624-4		100-1200[1]				55		0.4(I_F=1mA) (I_C=0.5mA)
PS2501-4		80-600				80		0.3(I_F=10mA) (I_C=2mA)
TIL193		20				35		0.4(I_F=5mA) (I_C=1mA)
TIL193A		50						
TIL193B		100						
TLP321-4		50-600				80		0.4
TLP521-4		50-600				55		
TLP621-4		50-600						
TLP624-4		50-600						0.4(I_F=1mA) (I_C=0.5mA)

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

AC Input

Part Number	Features	Current Transfer Ratio I_F = ±10mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F I_F=±20mA Max (V)	BV_{CEO} I_C=1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V Max (nA)	$V_{CE(SAT)}$ 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=0.5mA)	100 (V_{CE}=24V)	0.4(I_F=±8mA) (I_C=2.4mA)
ISP626-4		100-1200[2] 50[3]						0.4(I_F=±1mA) (I_C=0.5mA)
ISP844		20-300[4]				35	100	0.2(I_F=±20mA) (I_C=1mA)
PS2505-4		80-600				80	100 (V_{CE}=40V)	0.3(I_F=±10mA) (I_C=2mA)
TIL196		20				35	100 (V_{CE}=24V)	0.4(I_F=±5mA) (I_C=1mA)
TIL196A		50						
TIL196B		100						
TLP620-4		40-125[1]				55		0.4(I_F=±8mA) (I_C=2.4mA)
TLP626-4		100-1200[2] 50[3]						0.4(I_F=±1mA) (I_C=0.5mA)

Note 1 Test condition : I_F = ±5mA
Note 2 Test condition : I_F = ±1mA, V_{CE}=0.5V
Note 3 Test condition : I_F = ±0.5mA, V_{CE}=1.5V
Note 4 Test condition : I_F = ±1mA

Darlington Output

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

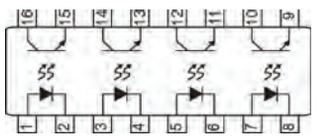
Note 1 Test condition: I_F = 1mA, V_{CE}=1V
Note 2 Test condition: I_F = 0.5mA, V_{CE}=1V
Note 3 Test condition: I_F = 0.25mA, V_{CE}=1V

16 Pin DIL & SMD Optocouplers

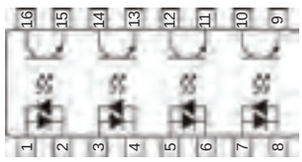
16 Pin Transistor Symmetrical Configuration DIL & SMD Optocouplers								
Part Number	Features	Current Transfer Ratio I_F = 10mA V_{CE} = 10V Min (%)	Min (KV) Isolation Voltage Min (KV)	Forward Current Max (mA)	V_{BR} Min (V)	BV_{CEO} I_C=1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=10V Max (nA)	$V_{CE(SAT)}$ I_F=16mA I_C=2mA 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=16mA V_{CE}=5V)				50		
IS849		50(I_F=5mA V_{CE}=5V)				35	100 (V_{CE}=24V)	0.2(I_F=20mA) (I_C=1mA)
ISQ1		20				50	50	0.3(I_F=10mA) (I_C=2mA)
ISQ2		100-500				70		0.4(I_F=5mA) (I_C=1mA)
ISQ5		50						0.4
ISQ74		12.5(I_F=16mA V_{CE}=5V)				50		
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=10mA) (I_C=2mA)
ISQ202		125-250 (30)[1]						
ISQ203		225-450 (50)[1]						
ISQ204		200-400 (100)[1]						
ISQ204-1		/50[2]						0.4(I_F=1mA) (I_C=0.5mA)
ISQ204-2		50/[3]						0.4(I_F=0.5mA) (I_C=0.25mA)
ISQ204-3		70[3]/100[2]						0.4(I_F=0.5mA) (I_C=0.35mA)

Note 1 Test Condition: I_F=1mA
Note 2 Test Condition: I_F=1mA,V_{CE} =0.4V
Note 3 Test Condition: I_F=0.5mA,V_{CE} =0.4V

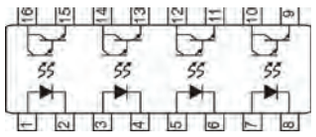
Transistor Output



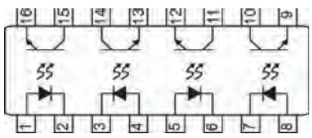
AC Input

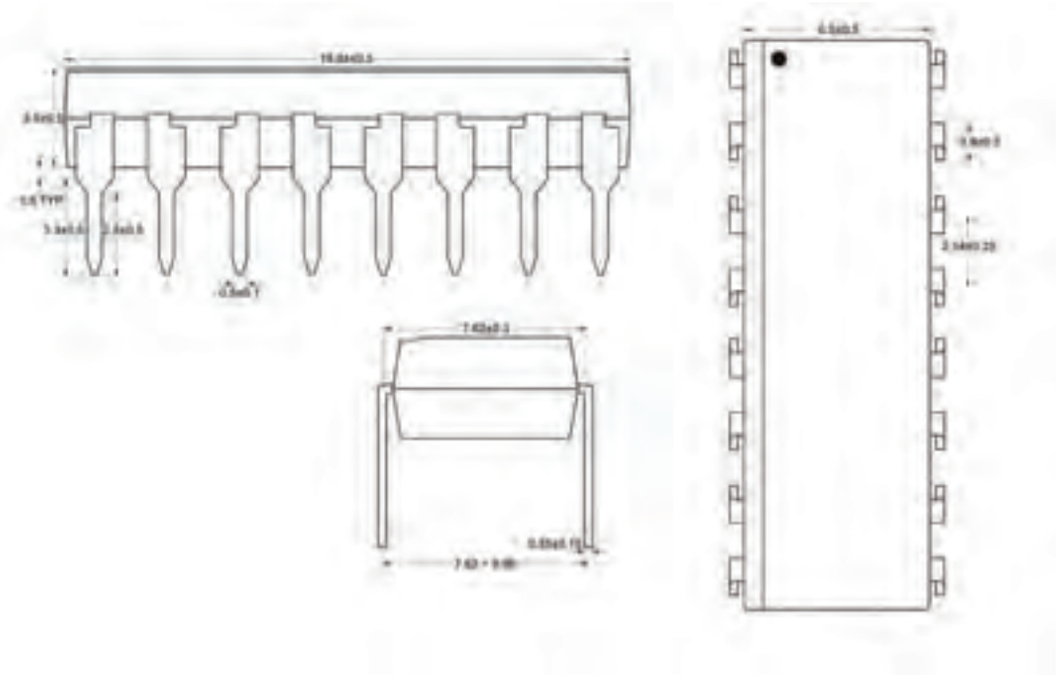


Darlington Output



Symmetrical Configuration





6 Pin DIL & SMD Triac Optocouplers

Random Phase Triac

Part Number	Features	Input Trigger Current V_D = 3V Max (mA)	Isolation Voltage Min (KV)	Continuous Forward Current Input Diode Max (mA)	V_{BR} I_R=10µA Min (V)	I_{DRM} Peak Off-State Current V_{DRM}=Rated Max (nA)	V_{DRM} Peak Blocking Voltage 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					
MOC3009		30					250
MOC3010		15					
MOC3011		10					
MOC3012		5					
MOC3020		30					400
MOC3021		15					
MOC3022		10					
MOC3023		5					
MOC3051		15					600
MOC3052		10					

Zero Crossing Triac

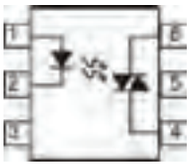
Part Number	Features	Input Trigger Current V_D = 3V Max (mA)	Isolation Voltage Min (KV)	Continuous Forward Current Input Diode Max (mA)	V_{BR} I_R=10µA Min (V)	I_{DRM} Peak Off-State Current V_{DRM}=Rated Max (nA)	V_{DRM} Peak Blocking Voltage I_{DRM}=0.1mA Min (V)
IS3030	Infrared Emitting Diode And 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

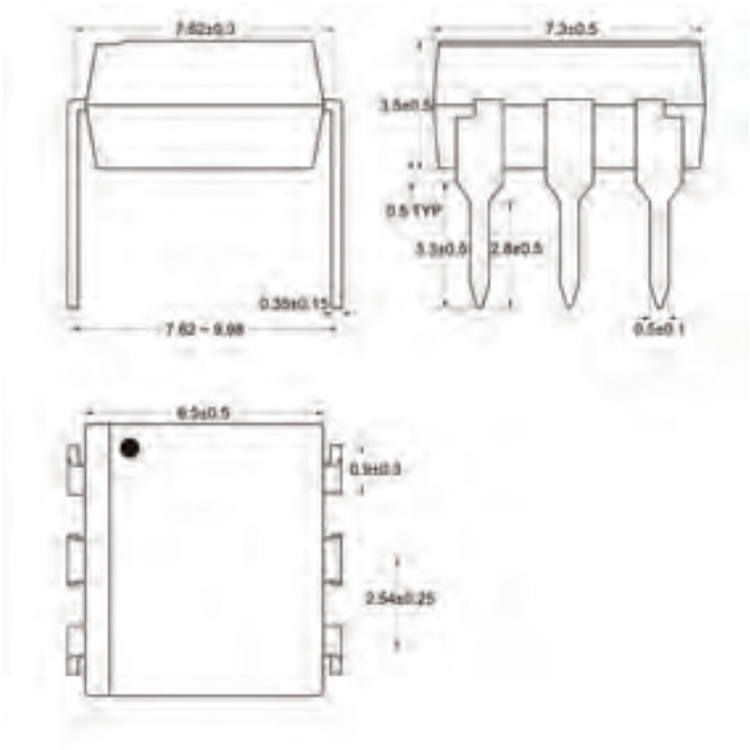
Zero Crossing Triac

Part Number	Features	Input Trigger Current V_D = 3V Max (mA)	Isolation Voltage Min (KV)	Continuous Forward Current Input Diode Max (mA)	V_{BR} I_R=10µA Min (V)	I_{DRM} Peak Off-State Current V_{DRM}=Rated Max (nA)	V_{DRM} Peak Blocking Voltage I_{DRM}=0.1mA 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					
IS3080		30					800
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					

Random Phase Triac



Zero Crossing Triac



4 Pin Mini Flat Package

Transistor Output

Part Number	Features	Current Transfer Ratio I_F = 5mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV_{RMS})	Continuous Forward Current Max (mA)	V_F I_F=20mA Max (V)	BV_{CEO} I_C=0.5mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V Max (nA)	$V_{CE(SAT)}$ I_F=20mA I_C=1mA Max (V)
IS121	Single channel Optocoupler with a Phototransistor Output	50-600	3.75	50	1.4	35	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=±1mA V_{CE} = 5V Min (%)	Isolation Voltage Min (KV_{RMS})	Continuous Forward Current Max (mA)	V_F I_F=±20mA Max (V)	BV_{CEO} I_C=0.1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V Max (nA)	$V_{CE(SAT)}$ I_F=±20mA I_C=1mA Max (V)
IS126	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
IS2705-1								
IS354								
IS354A		50-150						

Darlington Output

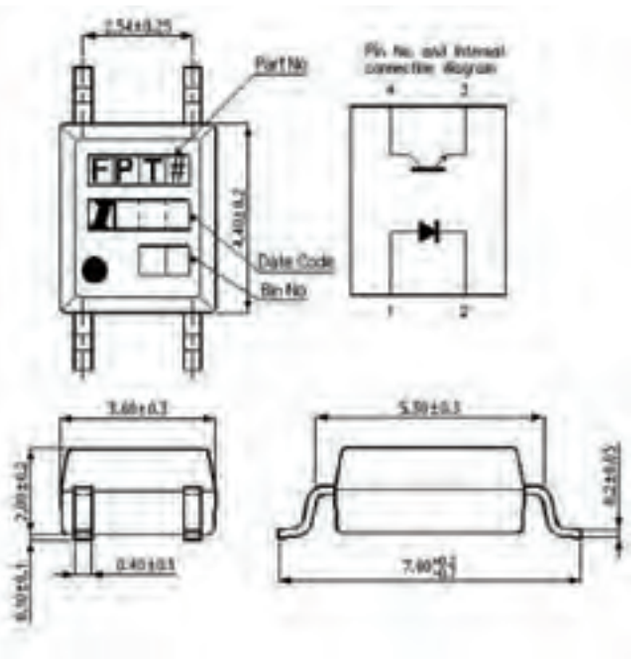
Part Number	Features	Current Transfer Ratio I_F=1mA V_{CE} = 2V Min (%)	Isolation Voltage Min (KV_{RMS})	Continuous Forward Current Max (mA)	V_F I_F=20mA Max (V)	BV_{CEO} I_C=0.1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=20V Max (µA)	$V_{CE(SAT)}$ I_F=20mA I_C=1mA Max (V)
IS355	Single channel Optocoupler with a Photo-Darlington Transistor	600-7500	3.75	50	1.4	35	1	1
IS2702-1								

Darlington Output - High Voltage

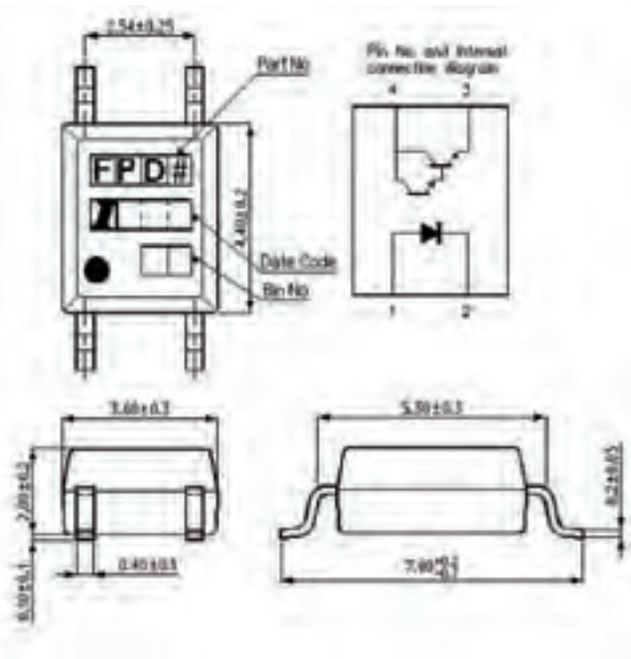
Part Number	Features	Current Transfer Ratio I_F=1mA V_{CE} = 2V Min (%)	Isolation Voltage Min (KV_{RMS})	Continuous Forward Current Max (mA)	V_F I_F=10mA Max (V)	BV_{CEO} I_C=0.1mA Min (V)	$I_{CEO(Dark)}$ V_{CE}=200V Max (nA)	$V_{CE(SAT)}$ I_F=20mA I_C=100mA Max (V)
IS2732-1	Single channel Optocoupler with a Photo-Darlington Transistor with a high operating voltage	1000	3.75	50	1.4	300	200	1.2
IS452								
IS127								

4 Pin Mini Flat Package

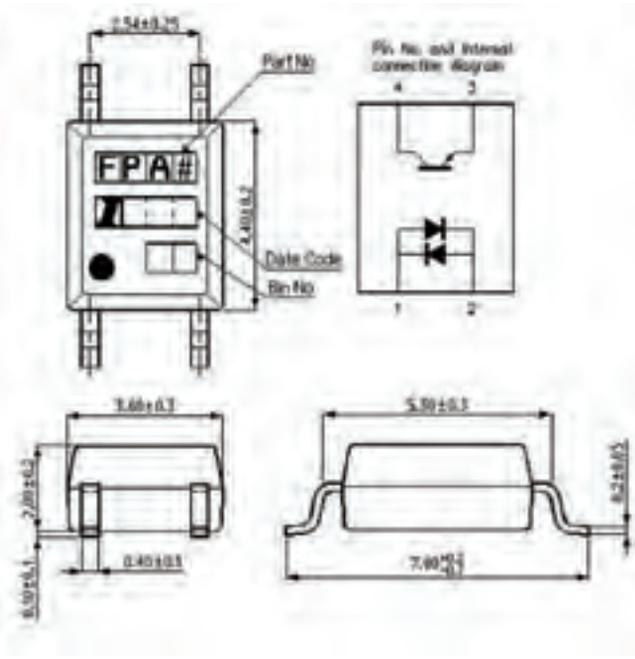
Transistor Output



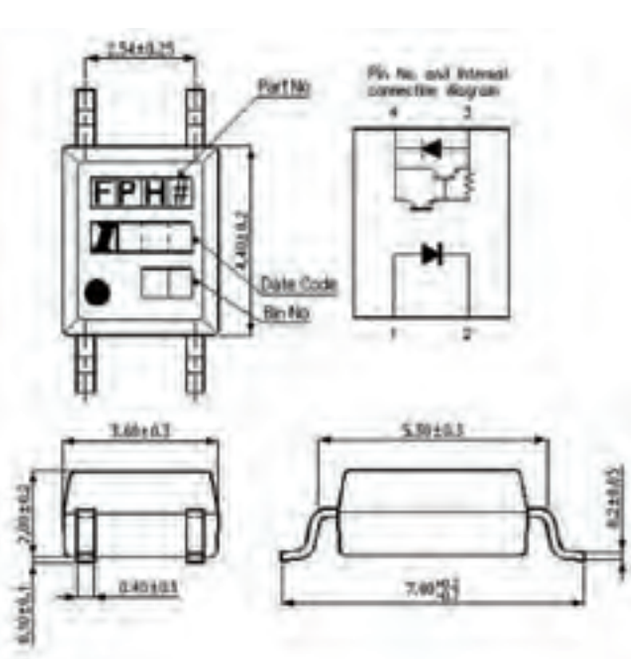
Darlington Output



AC Input



Darlington Output - High Voltage

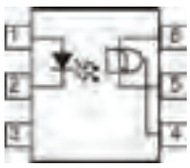


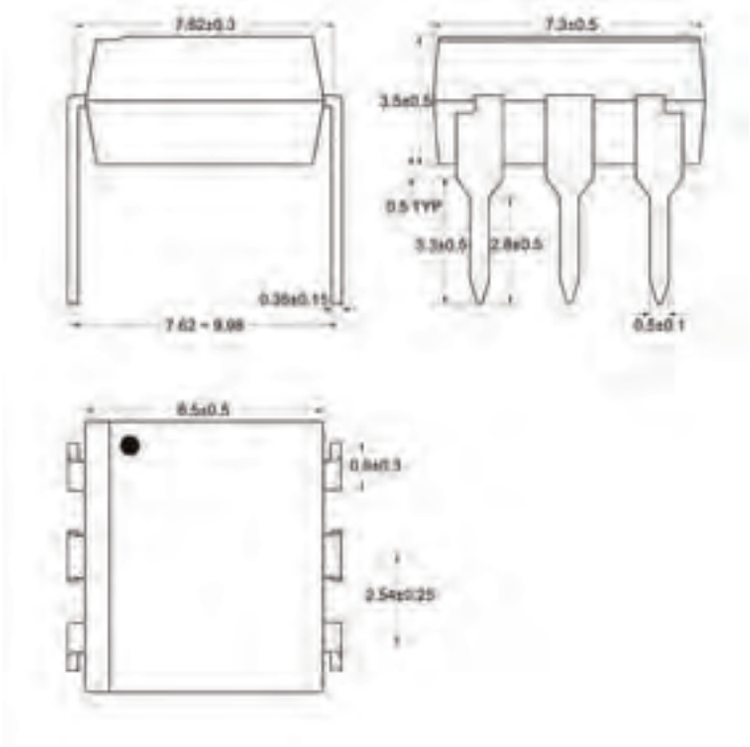
 # = Internal binning

6 Pin DIL & SMD Schmitt Optocouplers

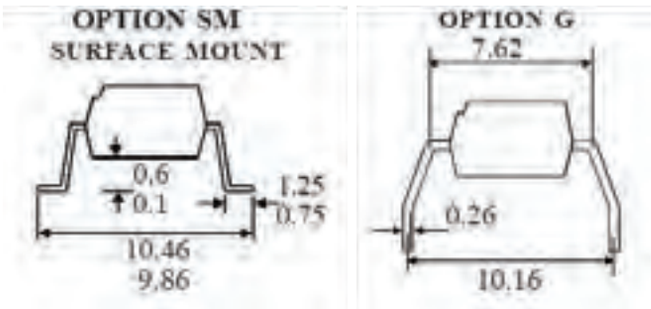
Schmitt Trigger								
Part Number	Features	Turn-On Threshold Current R_L=270Ω V_{CE} = 5V Max (mA)	Turn-Off Threshold Current R_L=270Ω V_{CE} = 5V Min (mA)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F I_F=50mA Max (V)	V_{BR}(LED) I_R=10µA Min (V)	Output Voltage (Low) R_L=270Ω V_{CC}=5V Max (V)
H11L1	Microprocessor compatible	1.6	0.3	7.5(pk) 5.3(rms)	50mA	1.5	100	0.4
H11L2		10						
H11L3		5						
H11L4		2.0						
IS609		1.6						
MOC5007								
MOC5008		4						
MOC5009		10						

Schmitt Trigger





Lead Form Diagrams



Mini Flat Triac Series

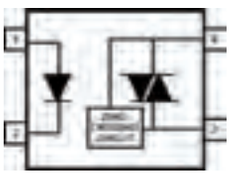
Zero Crossing Series

Part Number	Features	Input Trigger Current V_D = 3V Max (mA)	Isolation Voltage Min (vrms)	Continuous Forward Current Input Diode Max (mA)	V_{BR} I_R=10µA Min (V)	I_{DRM} Peak Off-State Current V_{DRM} Rated Max (mA)	V_{DRM} Peak Blocking Voltage I_{DRM} = 0.1mA Min (V)
MF3030	Infrared Emitting Diode and Light activated Zero crossing Bilateral Switch in a space saving Mini Flat Package	30	3750	60	6	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					

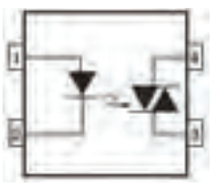
Random Phase Series

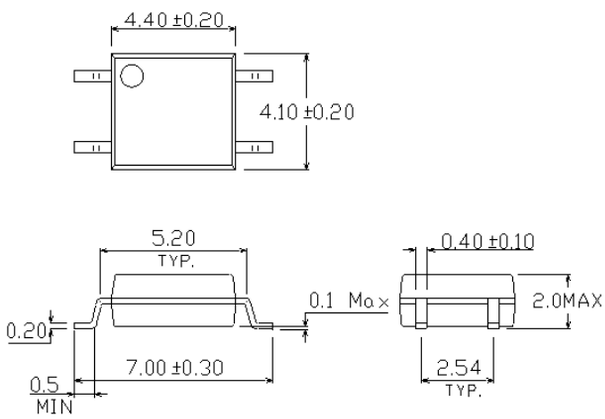
Part Number	Features	Input Trigger Current V_D = 3V Max (mA)	Isolation Voltage Min (vrms)	Continuous Forward Current Input Diode Max (mA)	V_{BR} I_R=10µA Min (V)	I_{DRM} Peak Off-State Current V_{DRM} Rated Max (mA)	V_{DRM} Peak Blocking Voltage I_{DRM} = 0.1mA Min (V)
MF3009	Infrared Emitting Diode and Light activated Zero crossing Bilateral Switch in a space saving Mini Flat Package	30	3750	60	6	100	250
MF3010		15					
MF3011		10					
MF3012		5					
MF3020		30					400
MF3021		15					
MF3022		10					
MF3023		5					
MF3051		15					600
MF3052		10					

Zero Crossing Pin Configuration



Random Phase Pin Configuration





Cross List

Isocom Part No.	Avago Part No.	Fairchild Part No.	SHARP Part No.	NEC Part No.	Toshiba Part No.
6N135	6N135	6N135			
6N136	6N136	6N136			
6N137	6N137	6N137			
6N138	6N138	6N138			
6N139	6N139	6N139			
ICPL-3120	HCPL-3120				
ICPLW137	HCNW137				
ICPLW2601	HCNW2601				
ICPLW2611	HCNW2611				
ICPL2601	HCPL2601	HCPL2601			TLP554 TLP2601
ICPL2611	HCPL2611	HCPL2611		PS9587	
ICPL600	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			
ICPL452		FODM452			TLP112 TLP112A TLP114A
ICPL453		FODM453	PC457	PS8101	
ICPL0452		HCPL0452			
ICPL0453		HCPL0453	PC457S		

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