

Optocoupler Phototransistor

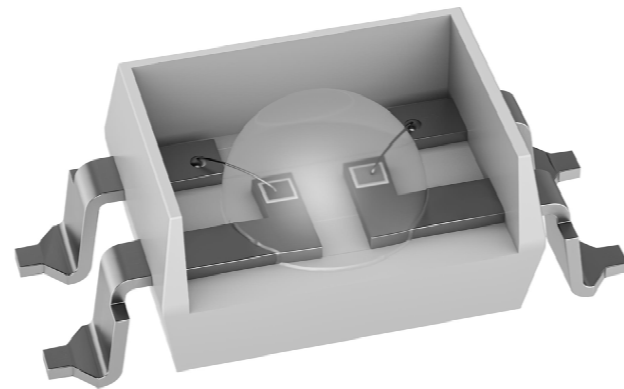
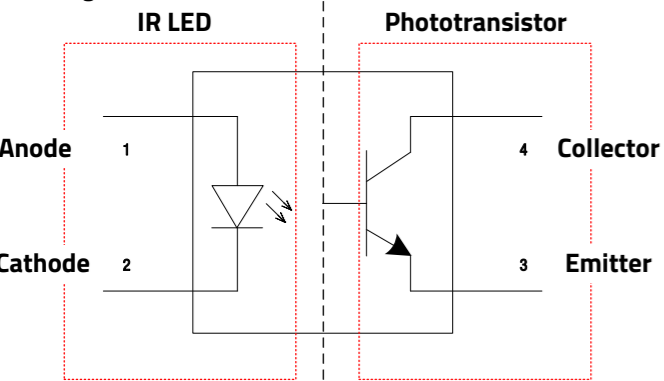
Optoelectronics at glance



Basics

Optocouplers - What's that?

- Transfers analogue /digital signals between two isolated circuits by using light transmission
- Optoelectronic package with infrared LED & detector
- The optical transmission takes place with an infrared light beam

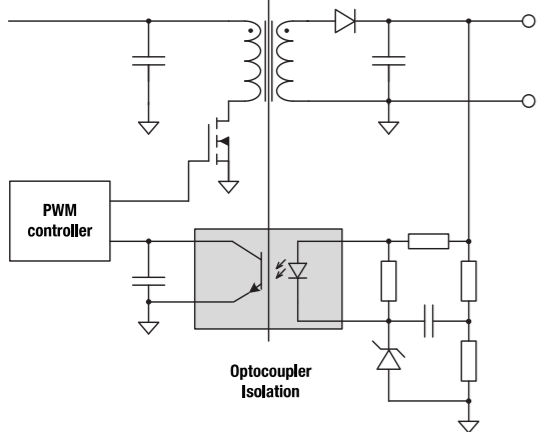


Why Optocouplers?

- Separation of low power control circuits from high power circuits (galvanic isolation)
- Optocouplers protect your application against overvoltages
- Safety Isolation: for circuits and persons from dangerous electrical installations

Advantages of Coplanar Optocoupler

- Fixed Isolation Gap
- Special inner mold design to improve current transfer ratio
- Copper leadframe for high reliability
- Excellent isolation
- Compact size
- High stability of CTR in different temperature ranges

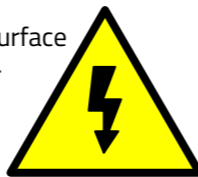


Applications:

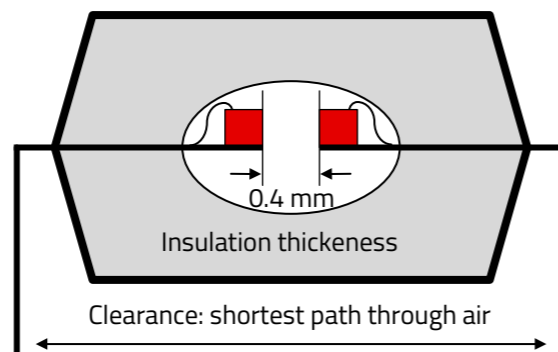


Isolation characteristics

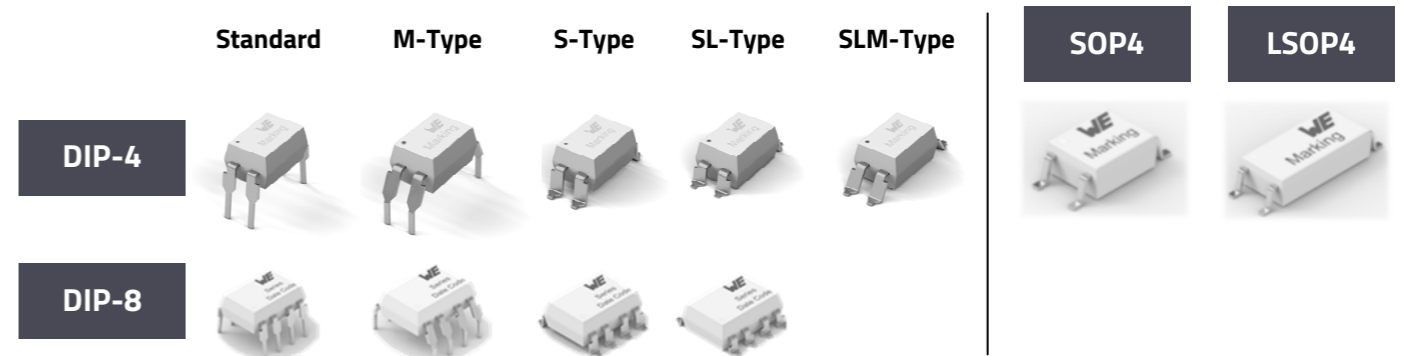
- Creepage: shortest path along the surface
- Clearance: shortest path through air
- Insulation thickness
- Maximum Isolation Voltage: 5 kV



Creepage: shortest path along the surface



Choose your package and Assembly technology



Series	Schematic	Package	V_{ISO} (V_{RMS})	$V_{CE\ max}$ (V)	Test Condition I_F (mA)	CTR V_{CE} (V)	CTR_{min} (%)	CTR_{max} (%)
DC Phototransistor								
816		DIP-4	5000	80	5	5	50	600
817		DIP-4	5000	35				
356		SOP-4	3750	80				
357		SOP-4	3750	35				
10x		LSOP-4	5000	80				
827		DIP-8	5000	80	5	5	130	400
AC Phototransistor								
814		DIP-4	5000	80	±1	5	20	300
354		SOP-4	3750	80				
DC Darlington								
815		DIP-4	5000	40	1	2	600	7500
355		SOP-4	3750	40				
352		SOP-4	3750	350	1	2	1000	15000

For every series we provide seriesdatasheets.



Compare Optocouplers in REDEXPERT
www.we-online.com/redexpert-optocouplers