

Features

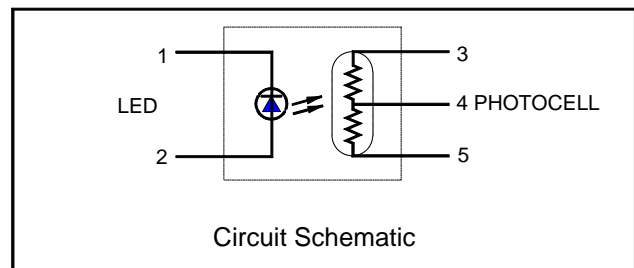
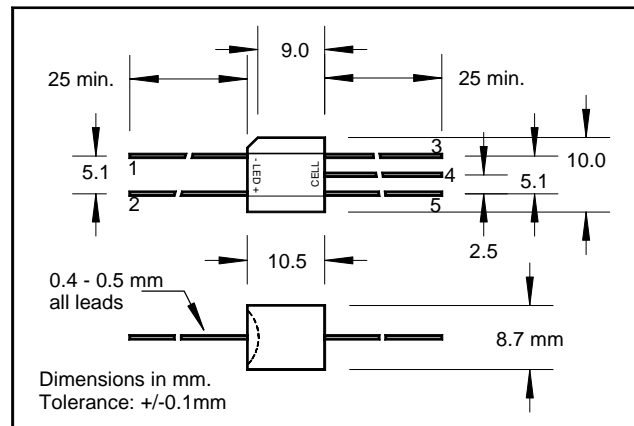
- Compact, moisture resistant package
- Low LED current
- Passive resistance output

Description

This optoisolator consists of an LED input optically coupled to a photocell. The photocell resistance is high when the LED current is off and low when the LED current is on.

Absolute Maximum Ratings

Operating & Storage Temp	-40 to +85°C
Soldering Temperature (1)	260°C
Isolation Voltage (peak)	2500V



Electrical Characteristics (T_A=25°C unless otherwise noted)

Symbol	Parameter	Min	Typ	Max	Units	Test Conditions
LED						
I _F	Forward Current			40	mA	
V _F	Forward Voltage			2.5	V	I _F = 20 mA
V _R	Reverse Voltage			3.0	V	
Cell						
V _C	Maximum Cell Voltage			100	V	(Peak AC or DC)
P _D	Power Dissipation			175	mW	(2)
Coupled						
R _{ON}	On Resistance	1.7		3.4	KΩ	I _F = 10 mA
R _{OFF}	Off Resistance	500			KΩ	5 sec after I _F = 0.
T _R	Rise Time		3.0		msec	Time to 63% of final conductance @ I _F =16mA (3)
T _F	Decay Time			50	msec	Time to 100KΩ after removal of I _F = 40 mA
R _M	On Resistance Matching			±25	%	I _F = 16 mA

Specifications subject to change without notice.

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Note: (1) >2 mm from case for <5 sec.

(2) Derate linearly to 0 at 75°C.

(3) The Rise Time, T_R, is the time required for the dark to light change in conductance to reach 63% of its final value.