

Features

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

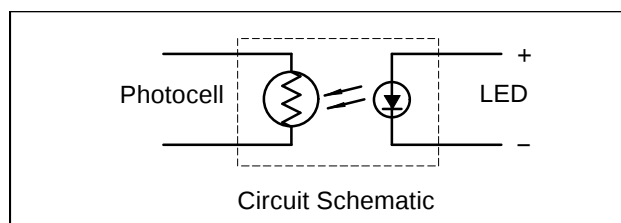
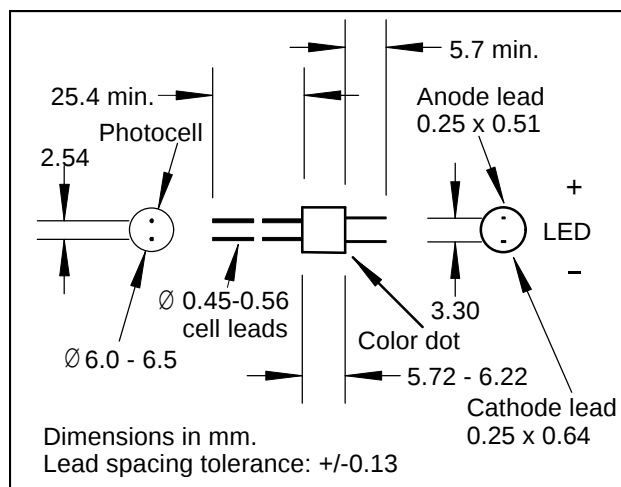
Description

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 resistance when the LED current is "on".

Absolute Maximum Ratings

Storage Temperature	-40 to +75°C
Operating Temperature	-40 to +75°C
Soldering Temperature (1)	260°C
Isolation Voltage (peak)	2000V

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.



Electrical Characteristics ($T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Min.	Typ.	Max.	Units	Test Conditions
LED						
I_F	Forward Current			40	mA	(2)
V_F	Forward Voltage			2.0	V	$I_F = 16 \text{ mA}$
I_R	Reverse Current			100	μA	$V_R = 4\text{V}$
Cell						
V_C	Maximum Cell Voltage			60	V	(Peak AC or DC)
P_D	Power Dissipation			50	mW	(2)
Coupled						
R_{ON}	On Resistance			500	Ω	$I_F = 20 \text{ mA}$
R_{OFF}	Off Resistance	500			K Ω	10 sec after $I_F = 0$, 5Vdc on cell.
T_R	Rise Time		3.5		msec	Time to 63% of final conductance @ $I_F = 16\text{mA}$ (3)
T_F	Decay Time			500	msec	Time to 100K Ω after removal of $I_F = 16\text{mA}$
	Cell Temp Coefficient		1.0		%/ $^\circ\text{C}$	$I_F > 5 \text{ mA}$

Specifications subject to change without notice

103708 REV 1