

Optocoupler

Features

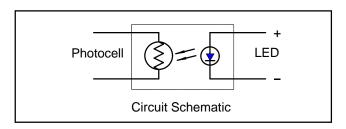
- Compact, moisture resistant package
- Low "on" resistance
- Low LED current
- Fast rise and decay time
- Passive resistance output
- Best distortion characteristics

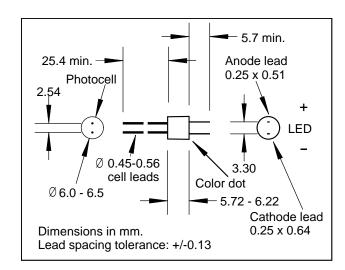
Description

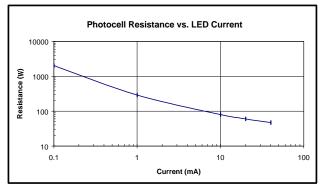
This optocoupler consists of an LED input optically coupled to a photocell. The photocell resistance is high when the LED current is "off" and low resistance when the LED current is "on".

Absolute Maximum Ratings

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







Electrical Characteristics (T_A=25°C)

Symbol	Parameter	Min.	Typ.	Max.	Units	Test Conditions
LED						
I _F	Forward Current			25	mA	
V_{F}	Forward Voltage			2.5	V	$I_F = 20 \text{ mA}$
I_R	Reverse Current			10	μΑ	$V_R = 4V$
Cell						
V _C	Maximum Cell Voltage			60	V	(Peak AC or DC)
P_D	Power Dissipation			50	mW	(2)
Coupled						
R _{ON}	On Resistance			60	Ω	$I_F = 20 \text{ mA}$
			150		Ω	$I_F = 5 \text{ mA}$
R _{OFF}	Off Resistance	25			МΩ	10 sec after I _F = 0, 5Vdc on cell.
T_R	Rise Time		5		msec	Time to 63% of final conductance @ I _F = 5mA
T _F	Decay Time		10		msec	Time to 100KΩ after removal of $I_F = 5mA$
	Cell Temp Coefficient		0.7		%/°C	$I_{\rm F}$ > 5 mA
Specifications subject to change without notice 104058 RE'						

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Note: (1) >2 mm from case for <5 sec. (2) Derate linearly to 0 at 75°C

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