

Features

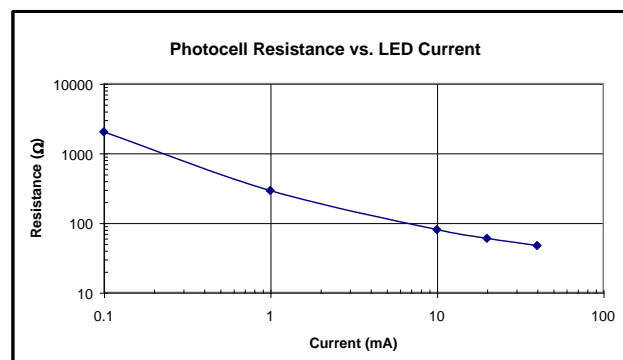
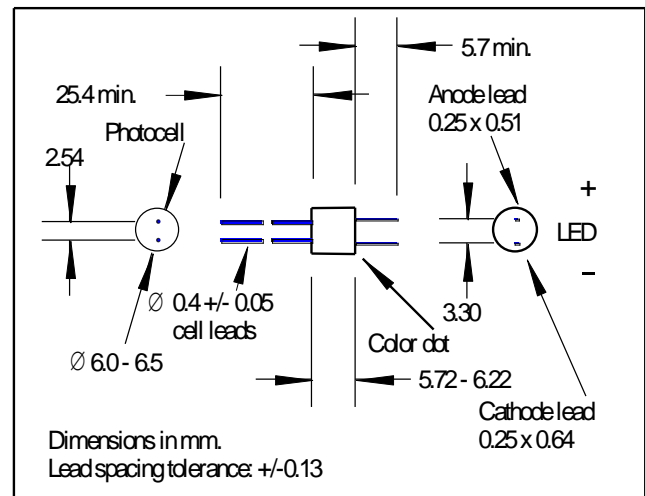
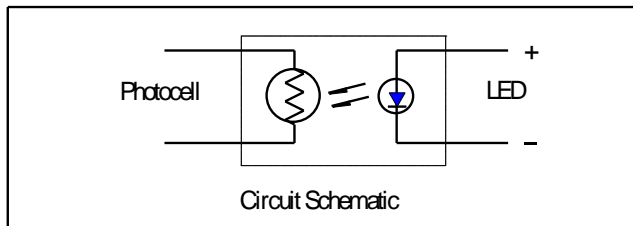
- Compact, moisture resistant package
- Low "on" resistance
- Low LED current
- Fast rise and decay time
- Passive resistance output
- Best distortion characteristics

Description

This opto-coupler 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

Storage & 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 mA
I _R	Reverse Current			10	μA	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 mA
			150		Ω	I _F = 5 mA
R _{OFF} (3)	Off Resistance	25			MΩ	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 _F > 5 mA

Note: (1) >2 mm from case for <5 sec. (2) Derate linearly to 0 at 75°C. (3) Measured after 1 minute ON @ I_F = 20mA followed by 10 sec. OFF. (4) Print "NSL-32SR3" and date code "YYWW" on module.