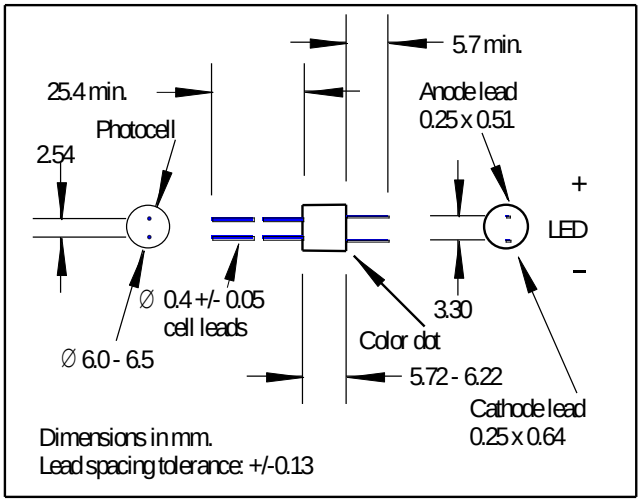
NSL-32SR3

Optocoupler

104058 Rev 07

Features

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

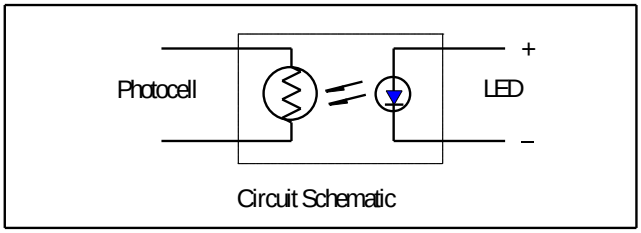


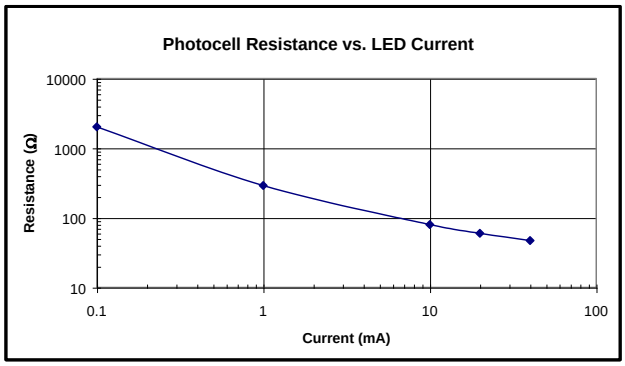
Description

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 @ IF = 20mA followed by 10 sec. OFF. (4) Print “**NSL-32SR3**” and date code “**YYWW**” on module.

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