



NSL-32SR2 Optocoupler

Features

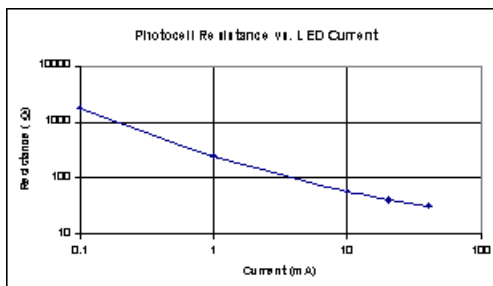
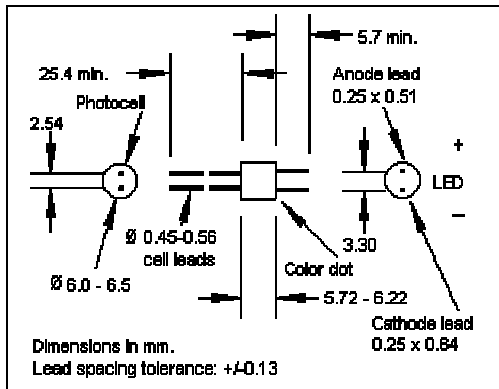
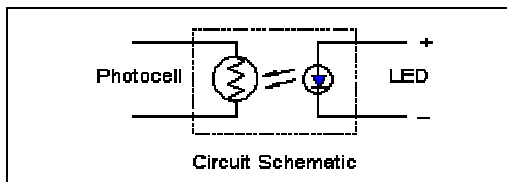
- Compact, moisture resistant package
- Lowest "on" resistance
- Very low LED current
- Passive resistance output
- Low distortion

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 ($T_A=25^{\circ}\text{C}$)

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	MA	$V_R = 4\text{V}$
Cell						
V_C	Maximum Cell Voltage			60	V	(Peak AC or DC)
P_D	Power Dissipation			50	MW	(2)
Coupled						
R_{ON}	On Resistance			40	W	$I_F = 20 \text{ mA}$
			140		W	$I_F = 1 \text{ mA}$
R_{OFF}	Off Resistance	1	5		MW	10 sec after $I_F = 0$, 5Vdc on cell.
T_R	Rise Time		5		Msec	Time to 63% of final conductance @ $I_F = 20\text{mA}$
T_F	Decay Time		80		msec	Time to 100KW after removal of $I_F = 20\text{mA}$
	Cell Temp Coefficient		0.7		%/ $^{\circ}\text{C}$	$I_F > 5 \text{ mA}$

Specifications subject to change without notice

104057 REV 3

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