NSL-26

Optocouplers

Features

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

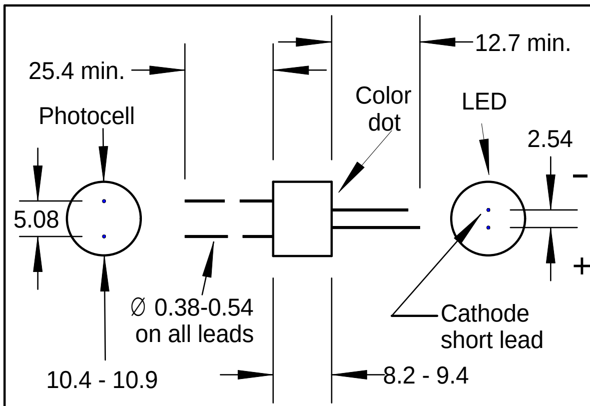
Description

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

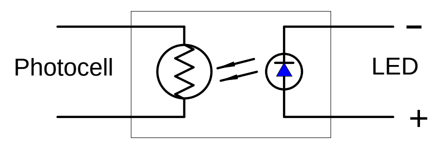
Absolute Maximum Ratings

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

Notes:
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.



Dimensions in mm.
Lead spacing tolerance: +/- 0.13



Circuit Schematic

Electrical Characteristics (T_A=25°C unless otherwise noted)

Symbol	Parameter	Min	Typ	Max	Units	Test Conditions
LED						
I_F	Forward Current			40	mA	
V_F	Forward Voltage			2.5	V	I_F = 16 mA
I_R	Reverse Current			3.0	µA	V_R = 4V
Cell						
V_C	Maximum Cell Voltage			120	V	(Peak AC or DC)
P_D	Power Dissipation			200	mW	(2)
Coupled						
R_{ON}	On Resistance			2	KΩ	I_F = 16 mA
R_{OFF}	Off Resistance	10			MΩ	10 sec after I_F = 0, 5Vdc on cell.
T_R	Rise Time		3.5		msec	Time to 63% of final conductance @ I_F=16mA (3)
T_F	Decay Time		20		msec	Time to 100KΩ after removal of I_F=16mA
	Cell Temp. Coefficient		0.7		%/°C	I_F > 5 mA

Specifications subject to change without notice

103064 REV 1

5200 St. Patrick St., Montreal
Que., H4E 4N9, Canada
Tel: 514-768-8000
Fax: 514-768-8889

The Old Railway, Princes Street
Ulverston, Cumbria, LA12 7NQ, UK
Tel: 01 229 581 551
Fax: 01 229 581 554