



NSL-32H-100 Series

Optocouplers

Features

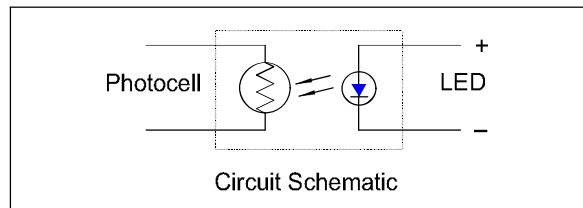
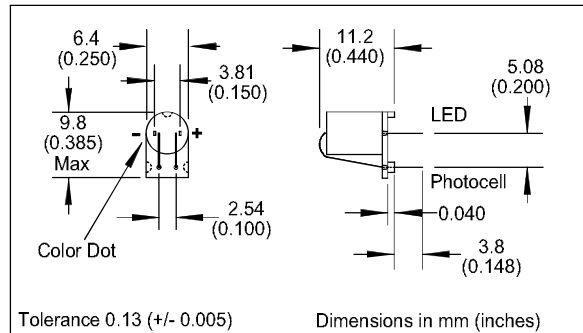
- Compact, moisture resistant package
- Low LED current
- Passive resistance output

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 when the LED current is "on". These optocouplers are mounted on a lead spacer platform that facilitates mounting on a PCB. The color of the platform indicates the unit "on" resistance, (see table).

Absolute Maximum Ratings

Storage Temperature	-40 to +70°C
Operating Temperature	-40 to +70°C
Soldering Temperature (1)	260°C
Isolation Voltage (peak)	2000V



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

Symbol	Parameter	Min	Typ	Max	Units	Test Conditions
LED						
I _F	Forward Current			40	mA	(Derate linearly to 0 at 75°C)
V _F	Forward Voltage			2.0	V	I _F = 16 mA
I _R	Reverse Current			100	μA	V _R = 4V
Cell						
V _C	Maximum Cell Voltage			60	V	(Peak AC or DC)
P _D	Power Dissipation			50	mW	(Derate linearly to 0 at 75°C)
Coupled						
R _{ON}	On Resistance:					I _F = 1 mA (2)
	NSL-32H-101			750	Ω	(Black)
	NSL-32H-102	0.75		0.96	KΩ	(Red)
	NSL-32H-103	0.90		1.65	KΩ	(Blue)
	NSL-32H-104	1.54		2.80	KΩ	(Yellow)
R _{OFF}	Off Resistance	500			KΩ	10 sec after I _F = 0, 4Vdc on cell.
T _R	Rise Time		3.5		msec	Time to 63% of final conductance @ I _F = 16mA (3)
T _F	Decay Time			500	msec	Time to 100KΩ after removal of I _F = 16mA
	Cell Temp Coefficient		1.0		%/°C	I _F > 5 mA

Specifications subject to change without notice

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Note: (1) >2 mm from case for <5 sec.

(2) measured after a dark history of 1 week.

(3) Rise time is the time for the dark to light change in conductance to reach 63% of its final value.

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