

## NSL-32H-103

## Optocoupler



### FEATURES

- Compact Moisture Resistant Package
- Low LED Current
- Passive Resistance Output

### DESCRIPTION

The NSL-32H-103 is an optocoupler consisting 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”. The optocoupler is mounted on a lead spacer platform that facilitates mounting on a PCB.

### APPLICATIONS

- Industrial

### > Absolute Maximum Ratings

Part No.	Isolation Voltage [V]	Power Dissipation <sup>1</sup> [mW]	Operating Temperature [C]	Storage Temperature [C]
NSL-32H-103	2000	50	-40 to +75	-40 to +75

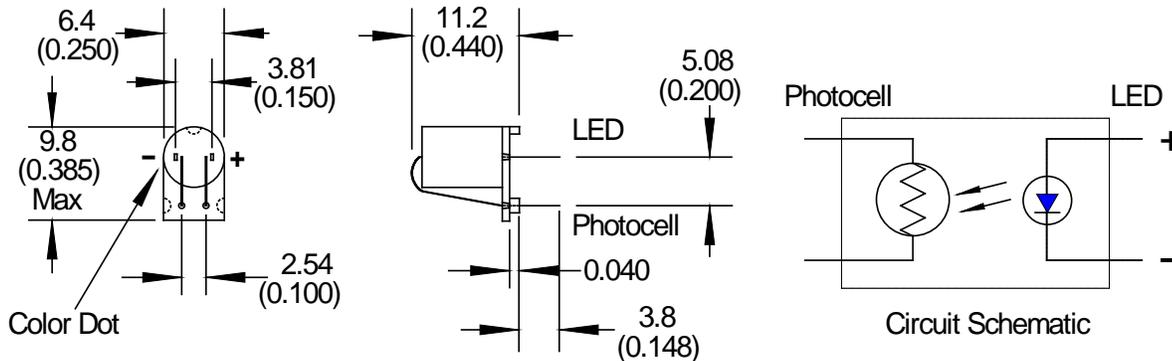
### > Electrical and Optical Characteristics

Typical Characteristics (T=23°C unless specified)						
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit
<b>LED</b>						
Forward Current	-	I <sub>F</sub>	-	-	40	mA
Forward Voltage	I <sub>F</sub> = 20 mA	V <sub>F</sub>	-	-	2	V
Reverse Current	V <sub>R</sub> = 4V	I <sub>R</sub>	-	-	100	μA
<b>CELL</b>						
Maximum Cell Voltage	Peak AC or DC	V <sub>MAX</sub>	-	-	60	V
<b>Coupled</b>						
On- Resistance	I <sub>f</sub> = 1 mA	R <sub>on</sub>	0.96	-	1.65	KΩ
Off Resistance	10 sec after I <sub>f</sub> = 0 mA, 5 V dc on cell	R <sub>off</sub>	500	5	-	KΩ
Rise Time <sup>2</sup>	Time for the dark to light change in conductance to reach 63% of its final value	T <sub>R</sub>	-	3.5	-	msec
Decay Time	Time to reach 100KΩ after removal of I <sub>f</sub> = 16mA	T <sub>D</sub>	-	-	500	msec
Cell Temp. Coefficient	I <sub>f</sub> = > 5 mA	T <sub>coef</sub>	-	1	-	%/°C

## NOTE:

1. Derate linearly to 0 at 75°C
2. The Rise Time, TR, is the time required for the dark to light change in conductance to reach 63% of its final value.
3. Print "NSL-32H-103" and date code "YYWW"
4. Spacer color is un-defined.

## &gt; Package Dimensions



Tolerance 0.13 (+/- 0.005)

Dimensions in mm (inches)

&gt;Soldering Conditions: 260°C 1/16 inch away from case for 3 seconds max.

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