

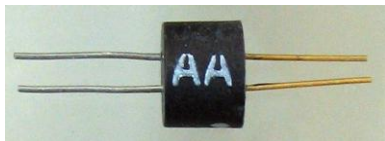
## NSL-32AA

## 10KΩ ON-Resistance Optocoupler



### FEATURES

- Low Dark Resistance
- Very Low Temperature Coefficient
- Very Slow Response Time



### DESCRIPTION

The NSL-32AA is an optocoupler that has an OFF-resistance of 10MΩ.

### APPLICATIONS

- Industrial Automation
- Light Control Systems
- Audio Equipment

#### > Absolute Maximum Ratings

Part No.	Power Dissipation <sup>1</sup> [mW]	Peak AC or DC Voltage [V]	Operating Temperature [°C]	Storage Temperature [°C]	Package
NSL-32AA	50	60	-40 to +75	-40 to +75	Encapsulated Plastic

#### > Typical Electrical and Optical Characteristics

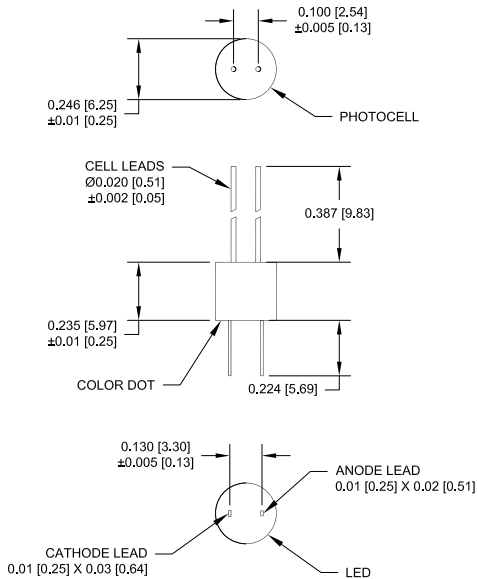
Typical Characteristics per elements (T=23°C unless specified)						
Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
<b>LED</b>						
Forward Current	-	I <sub>F</sub>	-	-	40	mA
Forward Voltage	I <sub>F</sub> =16mA	V <sub>F</sub>	-	-	2.5	V
Reverse Current	V <sub>R</sub> =4V	I <sub>R</sub>	-	-	100	μA
<b>Coupled</b>						
On Resistance	I <sub>F</sub> =10mA	R <sub>on</sub>	-	-	10	KΩ
Off Resistance	10 sec after I <sub>F</sub> =0mA, 5V DC on Cell	R <sub>off</sub>	10	-	-	MΩ
Rise Time	Time for the dark to light change in conductance to reach 63% of its final value	T <sub>R</sub>	-	3.5	-	ms
Decay Time	Time to reach 100KΩ after removal of I <sub>F</sub> =16mA	T <sub>D</sub>	-	12	-	ms
Cell Temp. Coefficient	I <sub>F</sub> >5mA	T <sub>coef</sub>	-	0.6	-	%/°C

Notes:

- (1) Derate linearly to zero at 75°C.

## > Mechanical Specifications

Units are in inches [mm]



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