

NSL-32

FEATURES

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

DESCRIPTION

The NSL-32 optocoupler consisting; 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".

APPLICATIONS

Industrial

> Absolute Maximum Ratings

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

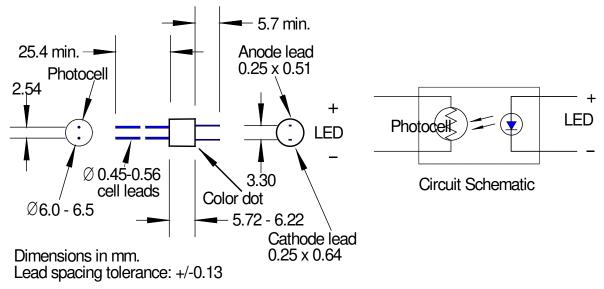
> Electrical and Optical Characteristics

Typical Characteristics (T=23°C unless specified)										
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit				
LED										
Forward Current	-	l _F	-	-	40	mA				
Forward Voltage	I _f = 16 mA	V _F	-	-	2.5	V				
Reverse Current	$V_R = 4V$	I _R	-	-	3	μΑ				
	CEI	L								
Maximum Cell Voltage	Peak AC or DC	V _{MAX}	-	-	60	V				
	Coup	led								
On- Resistance	If = 16 mA2	Ron	-	160	200	Ω				
Off Resistance	10 sec after I _f = 0 mA, 5 V dc on cell	R _{off}	500	-	-	ΚΩ				
Rise Time ²	Time for the dark to light change in conductance to reach 63% of its final value	T _R	-	55	-	msec				
Decay Time Time to reach 100KΩ after removal of $I_f = 16mA$		T _D	-	80	-	msec				
Cell Temp. Coefficient	If = > 5 mA	TEMPC	-	0.7	-	%/°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-32" and date code "YYWW"

> Package Dimensions



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

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