

### Features

- Compact moisture resistance package
- Best distortion characteristics
- Dual passive resistance output
- Assembly RoHS compliance except Cd in photocell

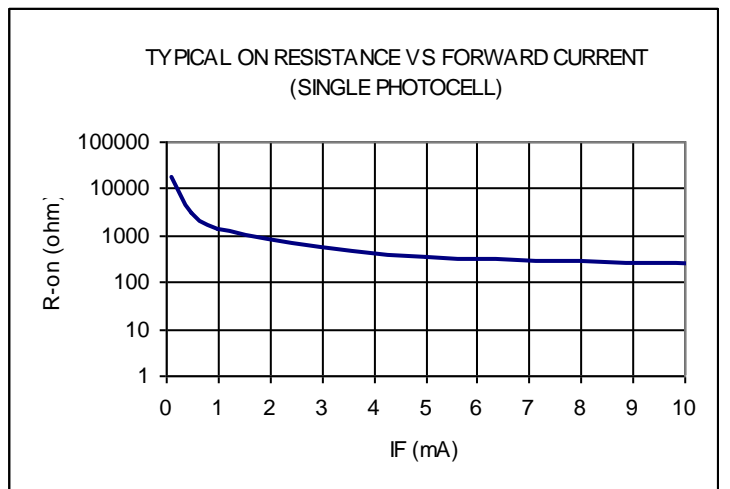
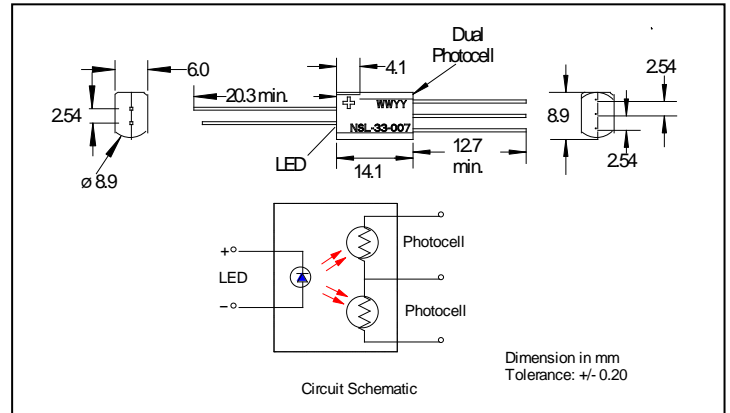
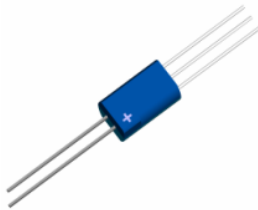
### Description

This optocoupler consists of an LED coupled to a dual 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° C to +75° C
Operating Temperature	-40° C to +75° C
Soldering Temperature (1)	260° C
Isolation Voltage (Peak)	2000V

- Note: (1) >2 mm from case for <5 sec.  
 (2) Derate linearly to 0 at 75°C  
 (3) M<sub>L</sub> is the percent difference between the photocell halves with the higher resistance used as the reference.



### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Symbol	Parameter	Min.	Typ.	Max.	Units	Test Conditions
<b>LED</b>						
I <sub>F</sub>	Forward Current			20	mA	
V <sub>F</sub>	Forward Voltage		2.1		V	I <sub>F</sub> = 20 mA
I <sub>R</sub>	Reverse Current			10	µA	V <sub>R</sub> = 4V
<b>Photocell</b>						
V <sub>C</sub>	Maximum Cell Voltage			100	V	(Peak AC or DC)
P <sub>D</sub>	Power Dissipation			30	mW	(2)
<b>Coupled</b>						
R <sub>ON</sub>	On Resistance			700	Ω	I <sub>F</sub> = 4.6 mA
R <sub>OFF</sub>	Off Resistance	25			MΩ	10 sec after I <sub>F</sub> = 0, 5Vdc on cell.
T <sub>R</sub>	Rise Time		1.2		msec	Time to 63% of final conductance @ I <sub>F</sub> = 4.6mA
T <sub>F</sub>	Decay Time		2.1		msec	Time to 37% of final conductance after removal of I <sub>F</sub> = 4.6mA
T <sub>C</sub>	Cell Temp Coefficient		0.7		%/°C	I <sub>F</sub> > 4.6 mA
M <sub>L</sub>	Light Resistance Matching			20	%	(3)

Specifications subject to change without notice.

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