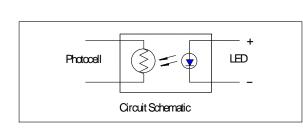
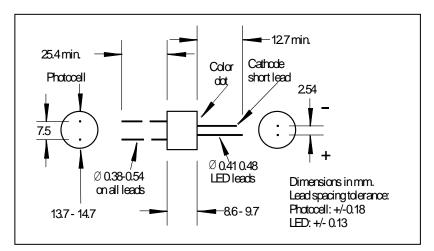


# **Optoisolator** NSL-34 / 34AA





# **FEATURES**

DESCRIPTION Compact, moisture resistant This NSL-34 / 34AA optoisolator consists of an LED input optically

when the LED current is "off" and low when the LED current is "on"

coupled to a TO-8 open photocell. The photocell resistance is high

## **APPLICATIONS**

Industrial

- package Low LED current
- Passive resistance output

# **ABSOLUTE MAXIMUM RATING**

(TA)= 23°C UNLESS OTHERWISE NOTED

SYMBOL	PARAMETER	MIN	MAX	UNITS
V <sub>Iso</sub>	Isolation Voltage (RMS)		7000	V
T <sub>Op</sub>	Operating Temperature	-40	+75	°C
T <sub>Stg</sub>	Storage Temperature	-40	+75	°C
Ts	Soldering Temperature		+260	°C

#### Note:

(1) Derate linearly to 0 at 75°C

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

(3) The Rise Time, TR, is the time required for the dark to light change in conductance to reach 63% of its final value

(4) Print "NSL-34 / 34AA" and date code "YYWW" on housing.

### RELIABILITY

Contact API for recommendations on specific test conditions and procedures. ELECTRO-OPTICAL CHARACTERISTICS

ELECTRO-OPTICAL CHARACTERISTICS				(TA)= 23°C, UNLESS OTHERWISE NOTED				
SYMBOL	CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS		
LED								
I <sub>F</sub>	Forward Current				40	mA		
VF	Forward Voltage	I <sub>F</sub> =20 mA			2.5	V		
V <sub>R</sub>	Reverse Voltage				3.0	V		
Cell								
Vc	Maximum Cell Voltage	(Peak AC or DC)			3.5	KV		
PD	Power Dissipation	(1)			400	mW		
Coupled								
Ron	On Resistance							
	NSL-34	I <sub>F</sub> =16 mA			1.2	MΩ		
	NSL-34AA	I <sub>F</sub> =5 mA			3.0	MΩ		
R <sub>OFF</sub>	Off Resistance	5 sec after $I_F = 0 \text{ mA}$	1000			MΩ		
T <sub>R</sub>	Rise Time	Time to 63% of final conductance @ IF=16mA (3)		3.5		msec		
T <sub>F</sub>	Decay Time	Time to $100M\Omega$ after removal of IF = 16 mA		20		msec		
Tc	Cell Temp. Coefficient	IF > 5 mA		0.6		%/°C		

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