



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



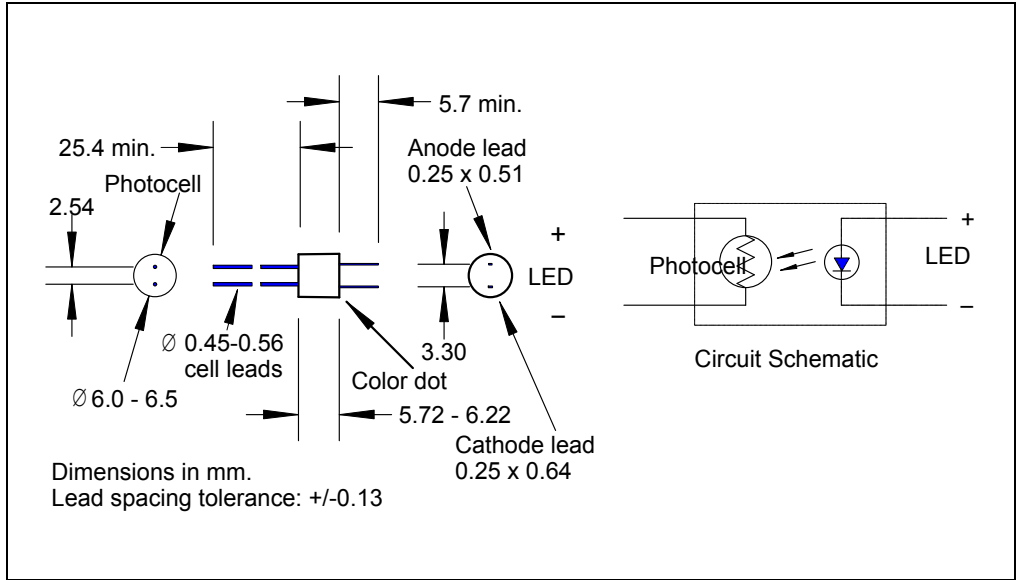
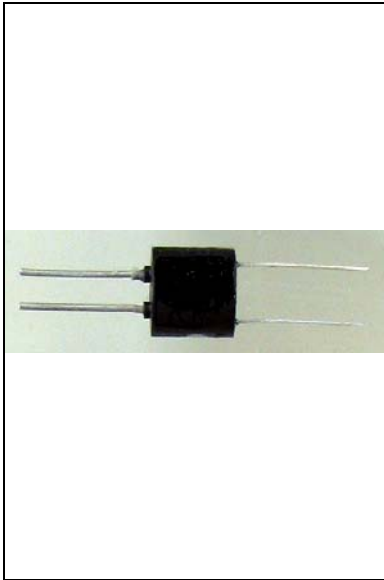
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DESCRIPTION

This optocoupler consists 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”.

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

FEATURES

- Compact, moisture resistant package
- Low LED current
- Very low “on” resistance
- Passive resistance output
- Low distortion

APPLICATIONS

- Industrial

ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Isolation Voltage	-	-	2000	V	T _a = 23°C UNLESS OTHERWISE NOTED
Operating Temperature	-40	to	+75	°C	Non condensing
Soldering Temperature	-40	-	+75	°C	-
Soldering Temperature	-	-	+260	°C	>2 mm from case for < 5 sec.

NOTE:

1. Measure after 1 minute ON @ I_F = 20mA and followed by 10 sec OFF
2. Print “NSL-32SR2” followed by a letter **A** to **G** and date code **YYWW**
3. Package in ranges individual ranges not available separately. Range distribution is not guaranteed

OPTO-ELECTRICAL PARAMETERS

$T_a = 23^\circ\text{C}$ UNLESS NOTED OTHERWISE

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
LED					
Forward Current	-	-	-	25	mA
Forward Voltage	$I_f = 20 \text{ mA}$	-	-	2.5	V
Reverse Current	$V_R = 4\text{V}$	-	-	10	μA
CELL					
Maximum Cell Voltage	(Peak AC or DC)	-	-	60	V
Power Dissipation	Derate linearly to 0 at 75°C	-	-	50	mW
COUPLED					
On Resistance	$I_f=20 \text{ mA}$	-	-	40	Ω
R2A	$I_f=1 \text{ mA}$ (guaranteed ± 1 range)	100	-	124	Ω
R2B	-	124	-	150	Ω
R2C	-	150	-	177	Ω
R2D	-	177	-	205	Ω
R2E	-	205	-	234	Ω
R2F	-	234	-	266	Ω
R2G	-	266	-	300	Ω
Off Resistance ¹	10 sec after $I_f = 0 \text{ mA}$	1	5	-	M Ω
Rise Time	Time to reach 63% of final conductive @ $I_f = 16\text{mA}$	-	5	-	m sec
Decay Time	Time to reach 100K Ω from removal of $I_f = 16\text{mA}$	-	80	-	msec
Cell Temp. Coefficient	$I_f > 5\text{mA}$	-	0.7	-	%/ $^\circ\text{C}$

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TYPICAL PERFORMANCE

