



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!



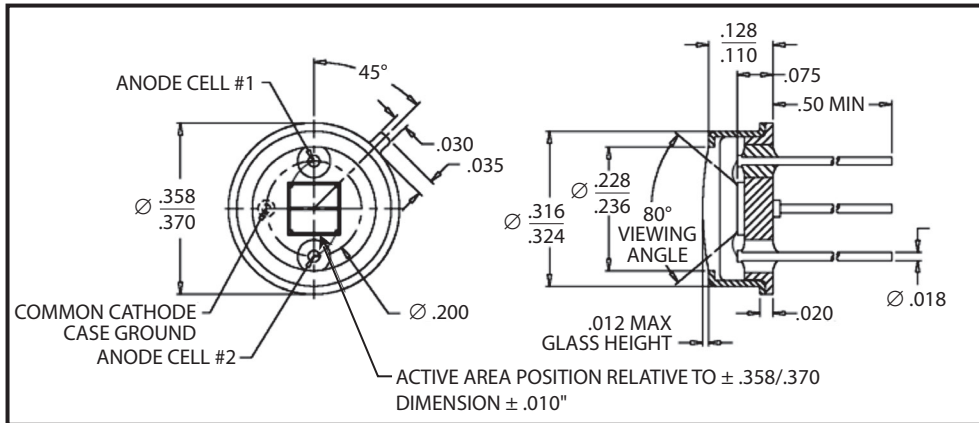
## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

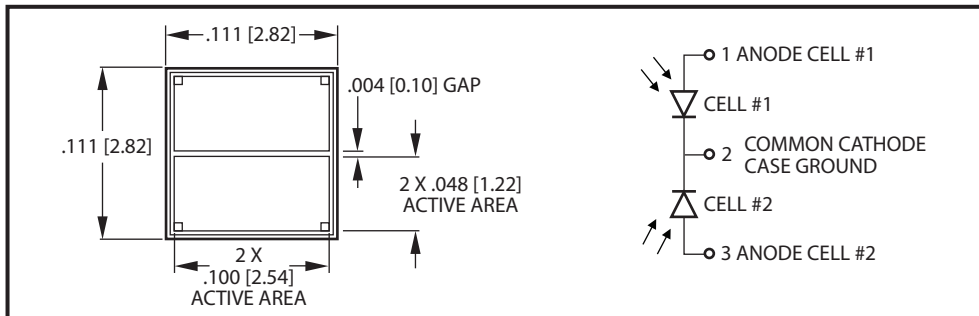
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





**FEATURES**

- Red enhanced
- Low noise
- High response
- High shunt resistance
- Low profile TO-5 package



**ELECTRO-OPTICAL CHARACTERISTICS AT 25°C**

CHARACTERISTIC	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Current, $I_D$	$V_R = 5 V$		0.9	2.5	na
Shunt Resistance, $R_{SH}$	$V_R = 10 mV$		300		$M\Omega$
Junction Capacitance, $C_J$	$V_R = 0 V, f = 1 MHz$		30		pF
Junction Capacitance, $C_J$	$V_R = 10 V, f = 1 MHz$		7.5		pF
Spectral Application Range, $\lambda_{range}$	Spot Scan	250		1100	nm
Responsivity, R	$\lambda = 633 nm, V_R = 0 V$	0.32	0.36		A/W
Responsivity, R	$\lambda = 900 nm, V_R = 0 V$	0.50	0.60		A/W
Breakdown Voltage, $V_R$	$I_R = 10 \mu A$		75		V
Noise Equivalent Power, NEP	$V_R = 0 V, \lambda = 950 nm$		$2.5 \times 10^{-14}$		W/ $\sqrt{HZ}$
Response Time, $t_r^1$	$RL = 50 \Omega, V_R = 0 V$		190		nsec
Response Time, $t_r^1$	$RL = 50 \Omega, V_R = 10 V$		8		nsec

<sup>1</sup>Response time of 10% to 90% is specified at 660 nm.

**ABSOLUTE MAXIMUM RATINGS AT 25°C**

PARAMETER	MIN	MAX	UNITS
Reverse Voltage, $V_R$		100	V
Storage Temperature, $T_{STG}$	- 55	+150	°C
Operating Temperature, $T_O$	- 40	+125	°C
Lead Soldering Temperature (1/16" from case for 3 sec)		+260	°C



750 Mitchell Road, Newbury Park, California 91320  
 Phone: (805) 499-0335, Fax: (805) 499-8108  
 Email: sales@optodiode.com, Website: www.optodiode.com

