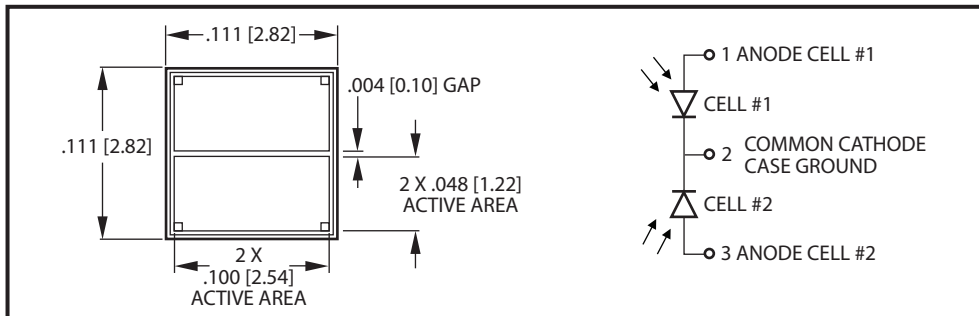


**FEATURES**

- 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

