

### FEATURES

- Red Enhanced
- Low Noise
- High Response
- High Shunt Resistance
- Low Profile TO-5 Package

### Electro-Optical Characteristics at 25°C

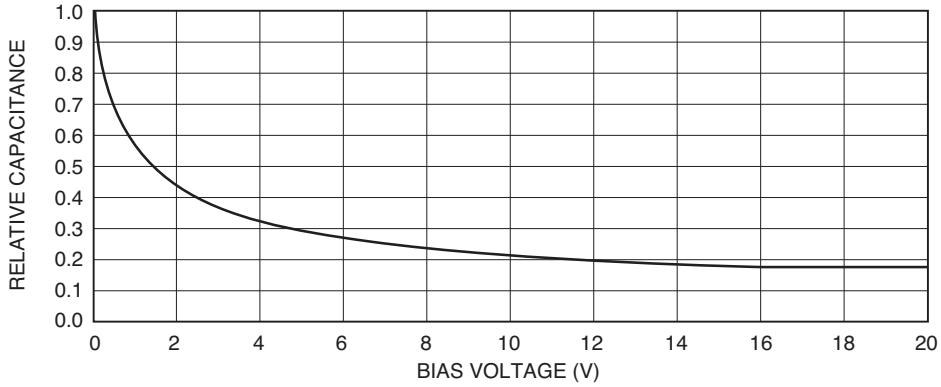
Characteristic	Test Conditions	Min	Typ	Max	Units
Dark Current, $I_D$	$V_R = 5 \text{ V}$		0.9	5	na
Shunt Resistance, $R_{SH}$	$V_R = 10 \text{ mV}$		300		MΩ
Junction Capacitance, $C_J$	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$		30		pF
Junction Capacitance, $C_J$	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$		7.5		pF
Spectral Application Range, $\lambda_{range}$	Spot Scan	250		1100	nm
Responsivity, R	$\lambda = 633 \text{ nm}, V_R = 0 \text{ V}$	0.32	0.36		A/W
Responsivity, R	$\lambda = 900 \text{ nm}, V_R = 0 \text{ V}$	0.5	0.6		A/W
Breakdown Voltage, $V_R$	$I_R = 10 \mu\text{A}$	25	60		V
Noise Equivalent Power, NEP	$V_R = 0 \text{ V}, \lambda = 950 \text{ nm}$		$2.5 \times 10^{-14}$		W/√HZ
Response Time, $t_r^1$	$RL = 50 \Omega, V_R = 0 \text{ V}$		190		nsec
Response Time, $t_r^1$	$RL = 50 \Omega, V_R = 10 \text{ V}$		8		nsec

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

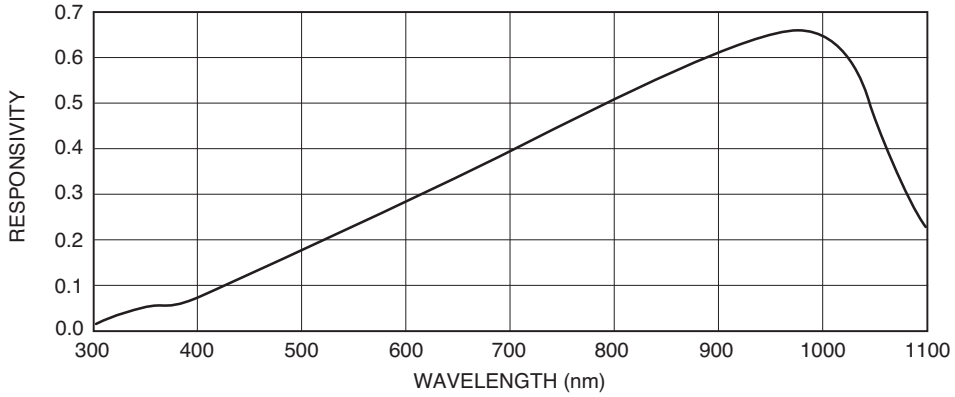
### Absolute Maximum Ratings at 25°C

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

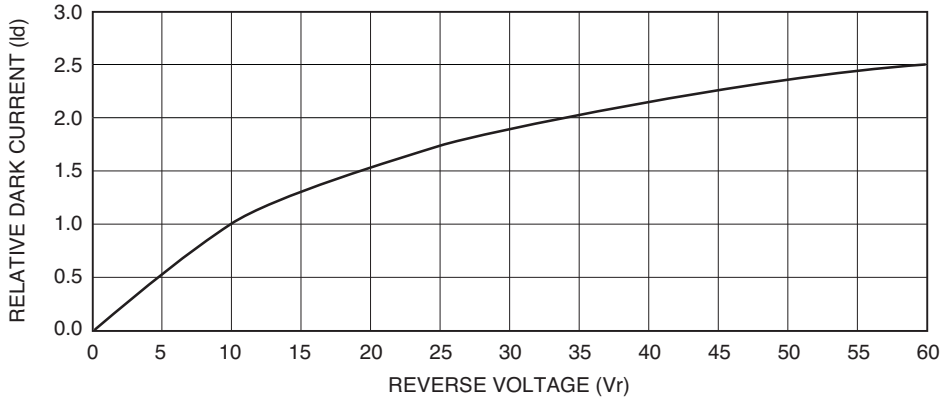
**Capacitance vs Bias Voltage**



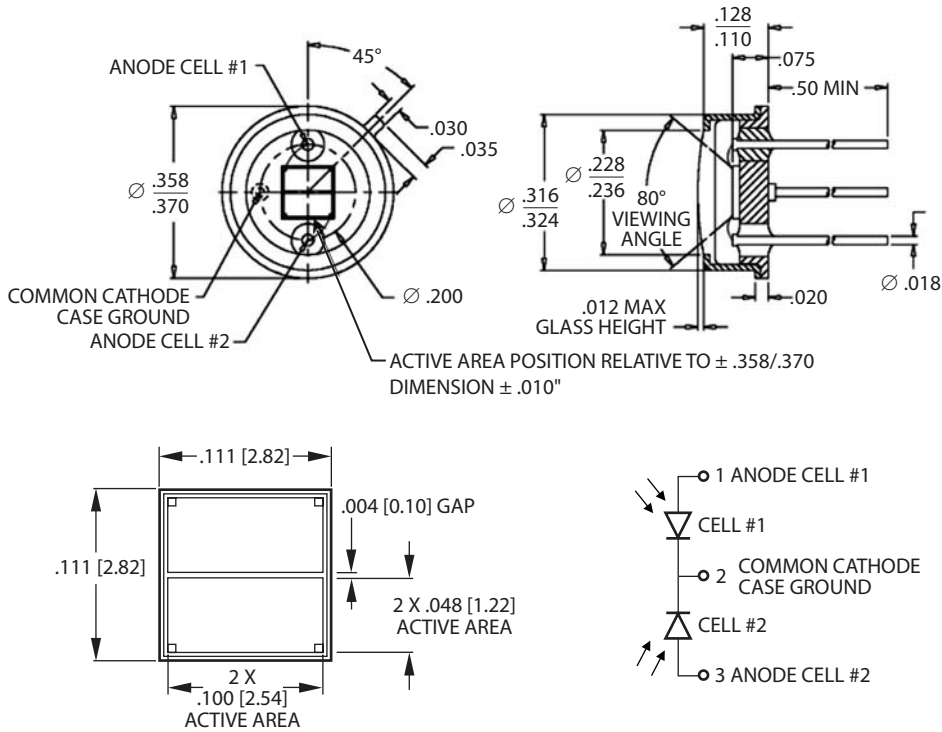
**Typical Spectral Response**



**Dark Current vs Voltage**



**Package Information**



Dimensions are in inch [metric] units.

Specifications are subject to change without prior notice.