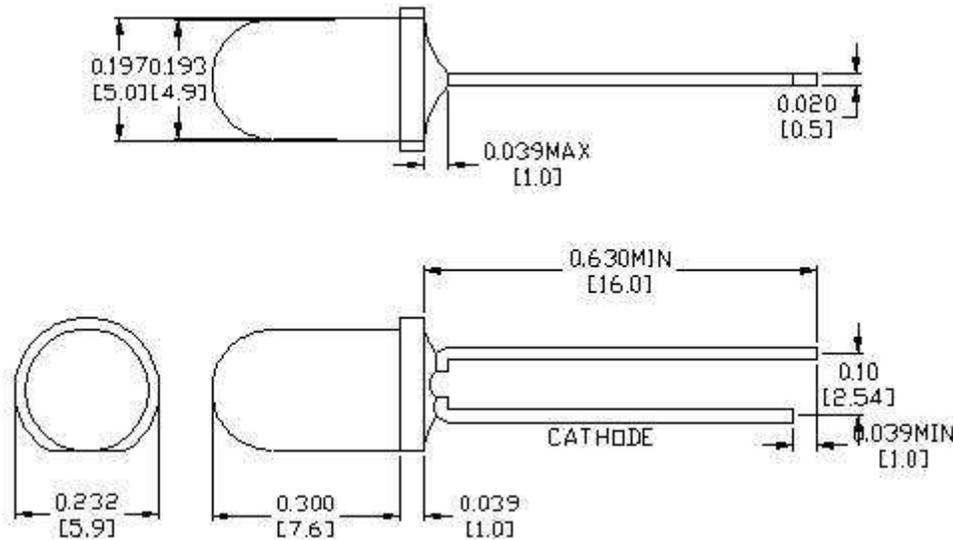


DESCRIPTION

This is a high speed Silicon detector optimized for applications requiring high Responsivity and a fast response time.

FEATURES

- High Responsivity
- High Electrical Bandwidth/ Fast response time
- 5 mm Plastic Package



ABSOLUTE MAXIMUM RATINGS

- Storage temperature..... -20°C to +85°C
- Case operating temperature..... 0°C to +70°C
- Lead solder temperature..... 260°C, 10 seconds
- Reverse Breakdown Voltage..... 35 Volts

OUTLINE DIMENSIONS

Tolerances are +/- 0.005 inches, except as noted
The case is electrically isolated from the pins

PARAMETER	TEST CONDITION	SYMBOL	MIN	TYP	MAX	UNIT
Capacitance	$V_r = 10 \text{ V}, f = 1 \text{ MHz}$	C		3.0		pF
Open Circuit Voltage	$H = 5.0 \text{ mW/cm}^2$	VOC		400		mV
Short Circuit Current	$H = 5.0 \text{ mW/cm}^2$	ISC		2		μA
Dark Current	$V_r = 10 \text{ Volts}, H = 0 \text{ mW}$	I_d		2	10	nA
Response Time	$10\%-90\%, V_r = 10 \text{ Volts}$ $R_L = 1K \Omega$	t_r		6.0		nsec
		t_f		6.0		nsec
Peak Wavelength		λ		940		nm
Electrical Bandwidth	$V_r = 5 \text{ Volts}$	BWE		50		MHz
Reverse Light Current	$H=5.0 \text{ mW/cm}^2, V_r=5 \text{ V}$	IL		3.5		μA
Viewing Angle		$2 \theta_{1/2}$		35		Deg

ELECTRO-OPTICAL CHARACTERISTICS (Case T = 25°C)