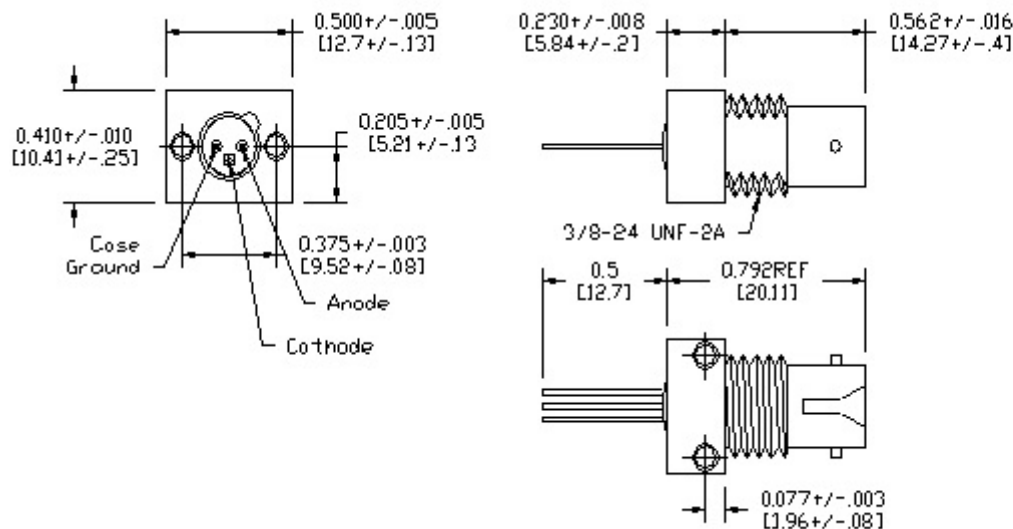


DESCRIPTION

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

FEATURES

- ☐ High Responsivity
- ☐ High Electrical Bandwidth
- ☐ High Reliability/Hermetic Package



ABSOLUTE MAXIMUM RATINGS

- ☐ Storage temperature..... -55°C to +125°C
- ☐ Case operating temperature..... -40°C to +100°C
- ☐ Lead solder temperature..... 260°C, 10 seconds
- ☐ Reverse Breakdown Voltage..... 100 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	$V_r = 20 \text{ V}$, $f = 1 \text{ MHz}$	C		3.0		pF
Responsivity (50 μm coupled)	$H = 10 \mu\text{W}$, $V_r = 5 \text{ Volts}$ 50 μm Core, $\lambda = 850 \text{ nm}$	R_c	.45	.55		A/W
Dark Current	$V_r = 5 \text{ Volts}$, $H = 0 \text{ mW}$	I_d		2	10	nA
Response Time	10%-90%, $V_r = 5 \text{ Volts}$ $R_L = 50 \Omega$	t_r		6.0	10	nsec
		t_f		6.0	10	nsec
Spectral Response		λ	400		1100	nm
Electrical Bandwidth	$V_r = 5 \text{ Volts}$	BWE		50		MHz

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