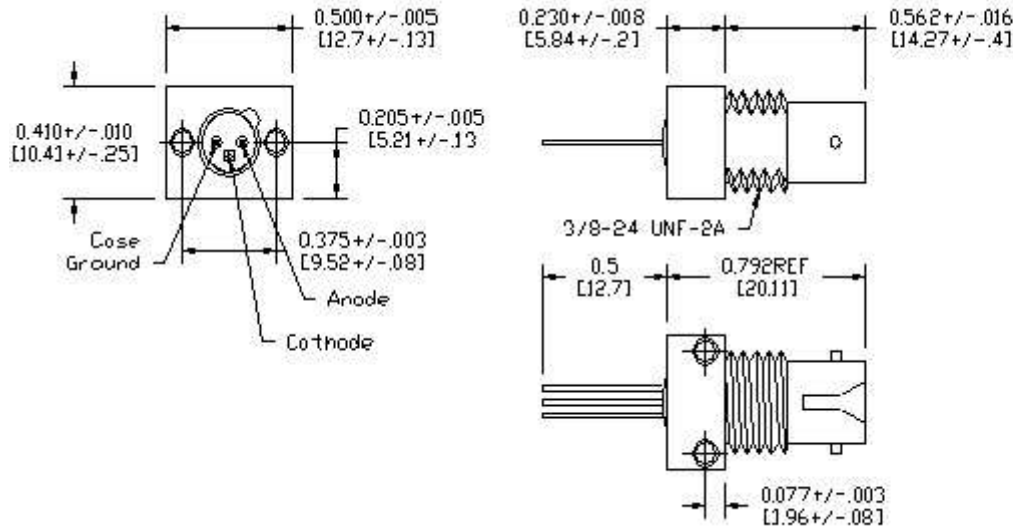


DESCRIPTION

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 V, f = 1 MHz	C		3.0		pF
Responsivity (50 μm coupled)	H = 10 μW, V _r = 5 Volts 50 μm Core, λ = 850 nm	R _c	.45	.55		A/W
Dark Current	V _r = 5 Volts, H = 0 mW	I _d		2	10	nA
Response Time	10%-90%, V _r = 5 Volts R _L = 50 Ω	t _r t _f		6.0 6.0	10 10	nsec nsec
Spectral Response		λ	400		1100	nm
Electrical Bandwidth	V _r = 5 Volts	BWE		50		MHz

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