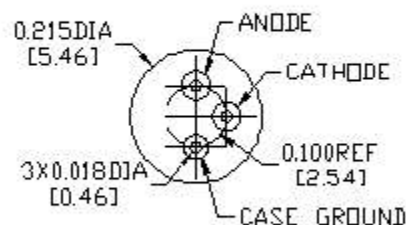
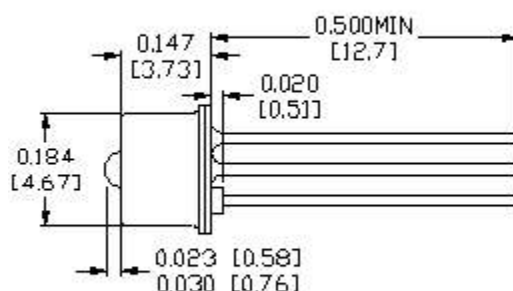


DESCRIPTION

This is a high radiance InGaAsP IR LED optimized for fiber optic applications requiring high power and a fast response time.

FEATURES

- ☐ High Coupled Power
- ☐ High Electrical Bandwidth/Fast response time
- ☐ High Reliability/Hermetic Package
- ☐ Similar to AMP 259006-1



ABSOLUTE MAXIMUM RATINGS

- ☐ Storage temperature..... -55°C to +125°C
- ☐ Case operating temperature..... -40°C to +85°C
- ☐ Lead solder temperature..... 260°C, 10 seconds
- ☐ Continuous forward current..... 100 mA
- ☐ Reverse Voltage..... 3 Volts

OUTLINE DIMENSIONS

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

The device may be delivered with a locating "tab" at the discretion of Texas Photonics, Inc.

PARAMETER	TEST CONDITION	SYMBOL	MIN	TYP	MAX	UNIT
Forward Voltage	If = 100 mA	V _f		0.8	2.0	Volts
Reverse Voltage	I _r = 10 μA	BVR	3.0			Volts
Capacitance	V _r = 0 V, f = 1 MHz	C		70		pF
Fiber Coupled Power	If = 100 mA, 50 μm Core dia, .21 NA	P _{oc}	10 -20	20 -17		μW dBm
Fiber Coupled Power	If = 100 mA, 62.5 μm Core dia, .28 NA	P _{oc}	20 -17	30 -15		μW dBm
Total Optical Power	If = 100 mA	P _{out}	0.1	0.4		mW
Response Time	10%-90%, 1V Prebias If = 100 mA	t _r t _f		4 4	6 6	nsec nsec
Peak Wavelength	If = 100 mA	λ _p	1280	1310	1350	nm
Spectral Bandwidth	If = 100 mA	Δλ		145		nm
Electrical Bandwidth	If = 100 mA	BWE		85		MHz

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