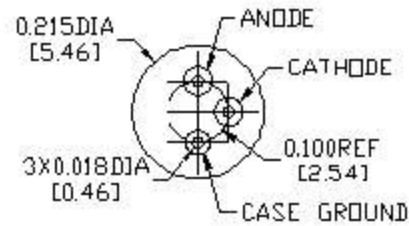
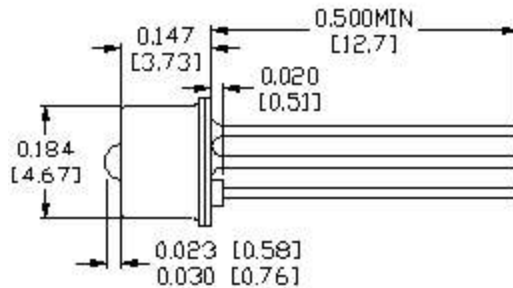


**DESCRIPTION**

This is a high radiance InGaAs 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 259006-2



**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.

PARAMETER	TEST CONDITION	SYMBOL	MIN	TYP	MAX	UNIT
Forward Voltage	If = 100 mA	V <sub>f</sub>		0.8	2.0	Volts
Reverse Voltage	I <sub>r</sub> = 10 μA	BVR	3.0			Volts
Capacitance	V <sub>r</sub> = 0 V, f = 1 MHz	C		70		pF
Fiber Coupled Power	If = 100 mA, 50 μm Core dia, .21 NA	P <sub>oc</sub>	20 -17	30 -15		μW dBm
Fiber Coupled Power	If = 100 mA, 62.5 μm Core dia, .28 NA	P <sub>oc</sub>	50 -13	75 -11		μW dBm
Total Optical Power	If = 100 mA	P <sub>out</sub>	0.3	0.8		mW
Response Time	10%-90%, 1V Prebias	t <sub>r</sub>		4	6	nsec
	If = 100 mA	t <sub>f</sub>		4	6	nsec
Peak Wavelength	If = 100 mA	λ <sub>p</sub>	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)

distributed by



Ohmstrasse 4  
85716 Unterschleissheim  
[www.imm-photonics.de](http://www.imm-photonics.de)

Tel.: +49 89 3214120  
Fax.: +49 89 32141211  
[sales@imm-photonics.de](mailto:sales@imm-photonics.de)