

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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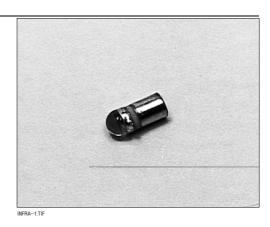
AIGaAs Infrared Emitting Diode

FEATURES

- Miniature, hermetically sealed, pill style, metal can package
- 18° (nominal) beam angle
- Wide operating temperature range (- 55°C to +125°C)
- Higher power output than GaAs at equivalent drive currents
- Ideal for direct mounting to printed circuit boards
- 880 nm wavelength
- Mechanically and spectrally matched to SD2420 photodiode, SD2440 phototransistor and SD2410 photodarlington



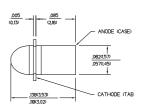
The SE2470 is a high intensity aluminum gallium arsenide infrared emitting diode mounted in a hermetically sealed, glass lensed, metal can package. This package directly mounts in double sided PC boards. These devices typically exhibit 70% greater power intensity than gallium arsenide devices at the same forward current.



OUTLINE DIMENSIONS in inches (mm)

Tolerance 3 plc decimals $\pm 0.005(0.12)$ 2 plc decimals $\pm 0.020(0.51)$





DIM_002.ds4



AIGaAs Infrared Emitting Diode

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Radiant Intensity (1)	IE				mW/sr	I _F =50 mA
SE2470-001		1.7				
SE2470-002		6.0				
Forward Voltage	VF			1.8	V	I _F =50 mA
Reverse Breakdown Voltage	V_{BR}	3.0			V	I _R =10 μA
Peak Output Wavelength	$\lambda_{ m p}$		880		nm	
Spectral Bandwidth	$\Delta \lambda$		80		nm	
Spectral Shift With Temperature	$\Delta \lambda_p / \Delta_T$		0.2		nm/°C	
Beam Angle (2)	Ø		18		degr.	I _F =Constant
Radiation Rise And Fall Time	t _r , t _f		0.7		μs	

- Notes

 1. Measured in mW/steradian (sr) into 0.01 steradians.

 2. Beam angle is defined as the total included angle between the half intensity points.

ABSOLUTE MAXIMUM RATINGS

(25°C Free-Air Temperature unless otherwise noted) Continuous Forward Current 125 mW (1) Power Dissipation Operating Temperature Range -55°C to 125°C Storage Temperature Range -65°C to 150°C 260°C

Soldering Temperature (10 sec)

Notes

1. Derate linearly from 25°C free-air temperature at the rate of 1.19 mW/°C,when soldered into a double sided printed circuit

board.



AIGaAs Infrared Emitting Diode

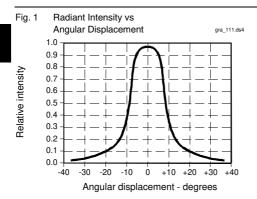
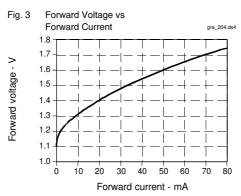
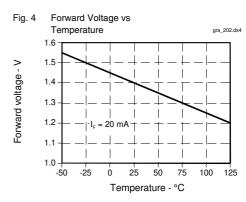
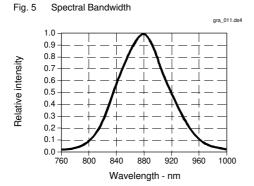
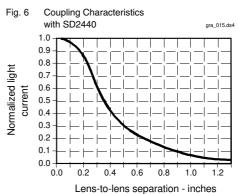


Fig. 2 Radiant Intensity vs Forward Current gra_016.ds4 1.0 0.9 Normalized radiant 0.7 0.6 0.5 0.4 0.2 0.1 0.0 10.0 20.0 30.0 40.0 50.0 0.0 Forward current - mA

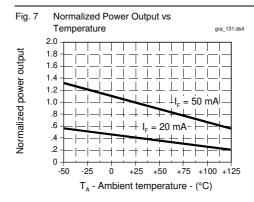








AlGaAs Infrared Emitting Diode



All Performance Curves Show Typical Values