imall

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!



Contact us

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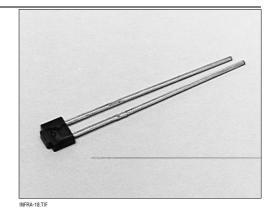


SEP8507

GaAs Infrared Emitting Diode

FEATURES

- End-emitting plastic package
- 135° (nominal) beam angle
- 935 nm wavelength
- Low profile for design flexibility
- Mechanically and spectrally matched to SDP8407 phototransistor



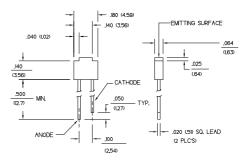
DESCRIPTION

The SEP8507 is a gallium arsenide infrared emitting diode molded in an end-emitting red plastic package. The chip is positioned to emit radiation from the top of the package. Lead lengths are staggered to provide a simple method of polarity identification.

OUTLINE DIMENSIONS in inches (mm)

Tolerance 3

3 plc decimals ±0.008(0.20) 2 plc decimals ±0.020(0.51)



DIM_009.cdr

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SEP8507

GaAs Infrared Emitting Diode

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)						
PARAMETER	SYMBOL	MIN	ТҮР	MAX	UNITS	TEST CONDITIONS
Total Power Output	Po				mW	l _F =20 mA
SEP8507-001		0.40				
Forward Voltage	VF			1.5	V	l _F =20 mA
Reverse Breakdown Voltage	VBR	3.0			V	I _R =10 μΑ
Peak Output Wavelength	λρ		935		nm	
Spectral Bandwidth	Δλ		50		nm	
Spectral Shift With Temperature	$\Delta \lambda p / \Delta T$		0.3		nm/°C	
Beam Angle ⁽¹⁾	Ø		135		degr.	IF=Constant
Radiation Rise And Fall Time	t _r , t _f		0.7		μs	

Notes

1. 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 Power Dissipation **Operating Temperature Range** Storage Temperature Range Soldering Temperature (5 sec)

60 mA 100 mW (1) -40°C to 85°C -40°C to 85°C 240°C

Notes

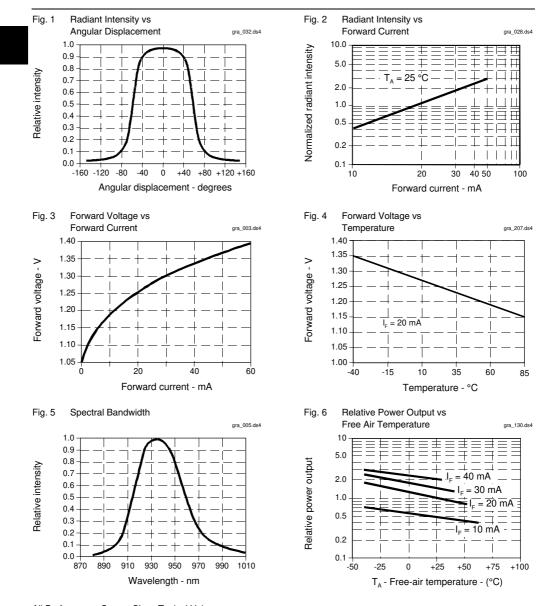
1. Derate linearly from 25°C free-air temperature at the rate of 0.66 mW/°C.



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All Performance Curves Show Typical Values

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