mail

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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SEP8706

AIGaAs Infrared Emitting Diode

FEATURES

- Side-looking plastic package
- + 50° (nominal) beam angle
- 880 nm wavelength
- Higher output power than GaAs at equivalent drive currents
- Mechanically and spectrally matched to SDP8406 phototransistor, SDP8106 photodarlington and SDP8000/8600 series Schmitt trigger



DESCRIPTION

The SEP8706 is an aluminum gallium arsenide infrared emitting diode molded in a side-emitting smoke gray plastic package. The chip is positioned to emit radiation through a plastic lens from the side of the package. These devices typically exhibit 70% greater power intensity than gallium arsenide devices at the same forward current.



Tolerance

3 plc decimals ±0.005(0.12) 2 plc decimals ±0.020(0.51)



DIM_071.ds4

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Honeywell reserves the right to make changes in order to improve design and supply the best products possible.

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SEP8706

AIGaAs Infrared Emitting Diode

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)						
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Irradiance (1)	Н				mW/cm ²	l _F =20 mA
SEP8706-001		0.20				
SEP8706-002		0.45		2.6		
SEP8706-003		0.65				
Forward Voltage	VF			1.7	V	I _F =20 mA
Reverse Breakdown Voltage	VBR	3.0			V	I _R =10 μΑ
Peak Output Wavelength	λρ		880		nm	
Spectral Bandwidth	Δλ		80		nm	
Spectral Shift With Temperature	$\Delta \lambda p / \Delta T$		0.2		nm/°C	
Beam Angle (2)	Ø		50		degr.	IF=Constant
Badiation Bise And Fall Time	te te		07		115	

Notes
Measured in mW/cm² into a 0.104 (2.64) diameter aperture placed 0.535(13.6) from the lens tip.
Beam angle is defined as the total included angle between the half intensity points.

50 mA 100 mW (1)

240°C

-40°C to 85°C -40°C to 85°C

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)

Notes

1. Derate linearly from 25°C free-air temperature at the rate of 0.78 mW/°C.



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All Performance Curves Show Typical Values

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