AIGaAs Infrared Emitting Diode

FEATURES

- Side-looking plastic package
- 10° (nominal) beam angle
- 880 nm wavelength
- Enhanced coupling distance
- Mechanically and spectrally matched to SDP8436 phototransistor



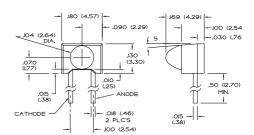
INFRA-80.TIF

DESCRIPTION

The SEP8736 is an aluminum gallium arsenide infrared emitting diode molded in a side-emitting smoke gray plastic package. The body and integral lens design combines the mounting advantage of a side-emitting package with the narrow emission pattern of a T-1 style device. The SEP8736 IRED is designed for those applications which require longer coupling distances than standard side-emitting devices can provide, such as touch screens. The IRED is also especially well suited to applications in which adjacent channel crosstalk could be a problem.

OUTLINE DIMENSIONS in inches (mm)

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



DIM_070.ds4



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ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Irradiance (1)	Н				mW/cm ²	I _F =20 mA
SEP8736-001		0.5				
SEP8736-002		1.2		3.0		
SEP8736-003		1.7				
Forward Voltage	VF			1.7	V	I _F =20 mA
Reverse Breakdown Voltage	V_{BR}	3.0			V	I _R =10 μA
Peak Output Wavelength	λ_{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		10		degr.	I _F =Constant
Radiation Rise And Fall Time	t _r , t _f		0.7		μs	

- Notes

 1. Measured in mW/cm² into a 0.104 (2.64) diameter aperture placed 0.500(12.7) from the lens tip.

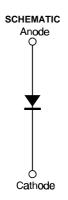
 2. Beam angle is defined as the total included angle between the half intensity points.

ABSOLUTE MAXIMUM RATINGS

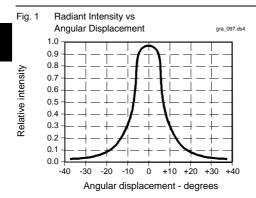
(25°C Free-Air Temperature unless otherwise noted) Continuous Forward Current 100 mW (1) Power Dissipation Operating Temperature Range -40°C to 85°C -40°C to 85°C Storage Temperature Range Soldering Temperature (5 sec)

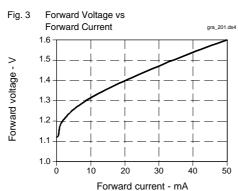
Notes

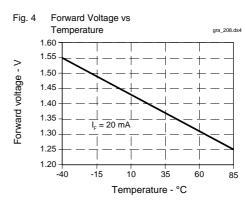
1. Derate linearly from 25°C free-air temperature at the rate of 0.78 mW/°C.

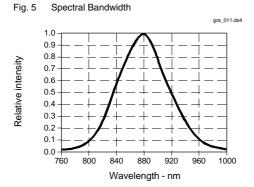


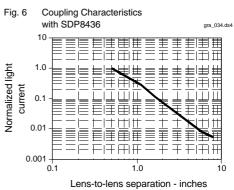
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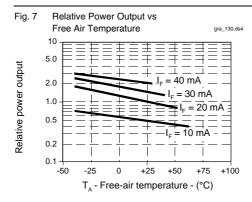








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