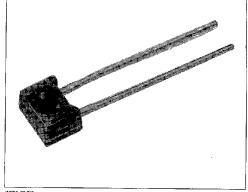
FEATURES

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

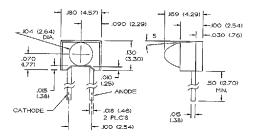


INFRA-80.TIF

OUTLINE DIMENSIONS in inches (mm) Tolerance 3 plc decimals +0.005(0.1

	•	
2	plc	decimals

±0.005(0.12) ±0.020(0.51)



DIM_070.cdr



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

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.

ELECTRICAL CHARACTERISTIC (25°C unless otherwise noted)

PARAMETER	SYMBOL	MIN	ТҮР	MAX	UNITS	TEST CONDITIONS
Irradiance (1)	Ŧ			1 <u>1</u>	mW/cm ²	lr=20 mA
SEP8736-001		0.5				
SEP8736-002		1.2		3.0		
SEP8736-003		1.7				
Forward Voltage	VF			1.7	V	l _F ≕20 mA
Reverse Breakdown Voltage	VBR	3.0			<u>У</u>	In=10 μA
Peak Output Wavelength	λρ		880		nm	
Spectral Bandwidth	Δλ		80		nm	
Spectral Shift With Temperature	Δλφ/Δτ		0.2		nm/ºC	
Beam Angle (2)	Ø		10		degr.	l _F =Constant
Radiation Rise And Fall Time	tr, tr		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 o	therwise noted)
Continuous Forward Current	50 mA
Power Dissipation	100 mW (1)
Operating Temperature Range	-40°C to 85°C
Storage Temperature Range	-40°C to 85°C
Soldering Temperature (5 sec)	240°C

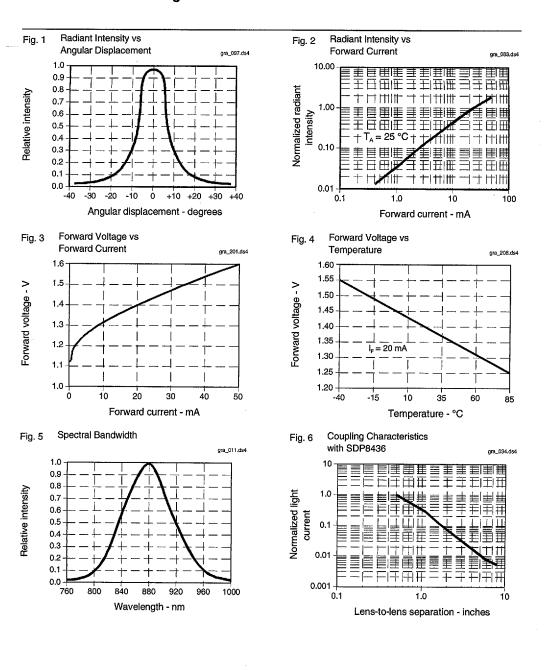
Notes

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

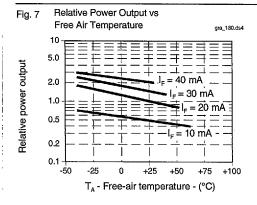


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All Performance Curves Show Typical Values

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