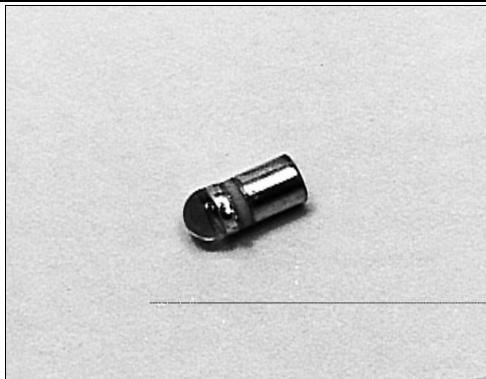


SE2460

GaAs 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)
- Ideal for direct mounting to printed circuit boards
- 935 nm wavelength
- Mechanically and spectrally matched to SD2420 photodiode, SD2440 phototransistor and SD2410 photodarlington



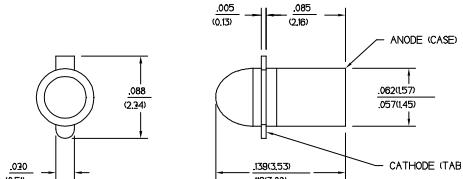
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DESCRIPTION

The SE2460 is a gallium arsenide infrared emitting diode mounted in a hermetically sealed, glass lensed, metal can package. This package directly mounts in double sided PC boards.

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

SE2460

GaAs Infrared Emitting Diode

ELECTRICAL CHARACTERISTICS (25°C unless otherwise noted)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Total Power Output SE2460-001	P _O	0.27			mW	I _F =50 mA
SE2460-002		0.40				
SE2460-003		1.00				
Forward Voltage	V _F		1.6		V	I _F =50 mA
Reverse Breakdown Voltage	V _{BR}	3.0			V	I _R =10 µA
Peak Output Wavelength	λ _p	935			nm	
Spectral Bandwidth	Δλ	50			nm	
Spectral Shift With Temperature	Δλ _p /ΔT	0.3			nm/°C	
Beam Angle ⁽¹⁾	Ø	18			degr.	I _F =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

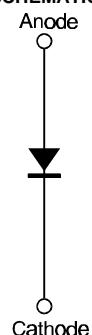
(25°C Free-Air Temperature unless otherwise noted)

Continuous Forward Current	75 mA
Power Dissipation	125 mW ⁽¹⁾
Operating Temperature Range	-55°C to 125°C
Storage Temperature Range	-65°C to 150°C
Soldering Temperature (10 sec)	260°C

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.

SCHEMATIC



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

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SE2460

GaAs Infrared Emitting Diode

Fig. 1 Radiant Intensity vs
Angular Displacement

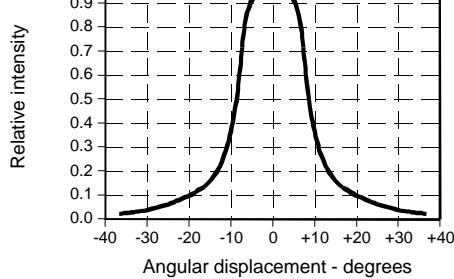


Fig. 3 Forward Voltage vs
Forward Current

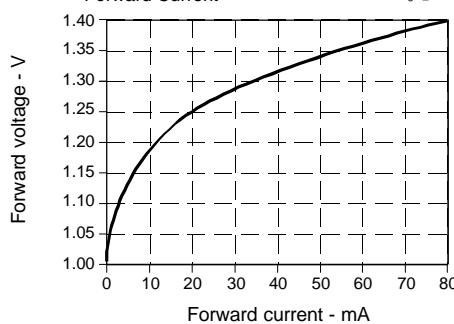


Fig. 5 Spectral Bandwidth

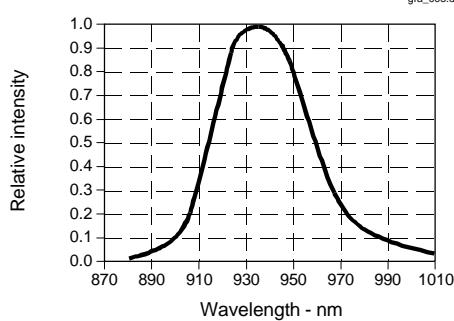


Fig. 2 Radiant Intensity vs
Forward Current

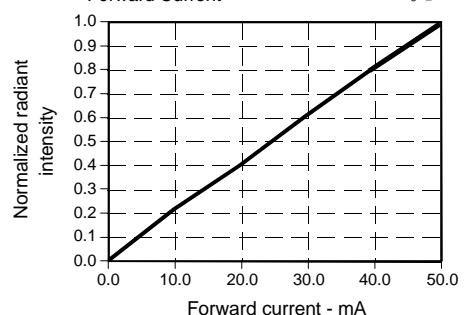


Fig. 4 Forward Voltage vs
Temperature

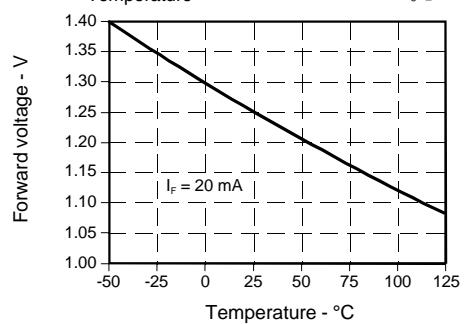
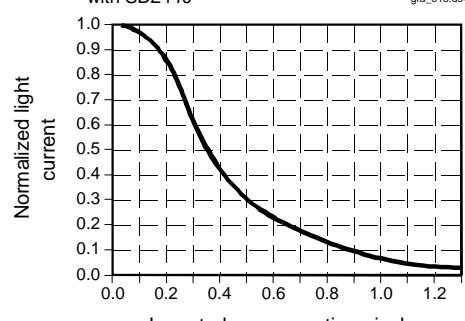
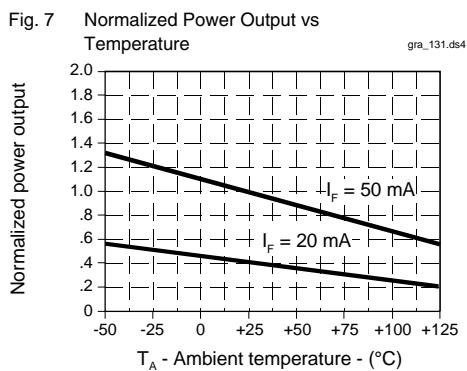


Fig. 6 Coupling Characteristics
with SD2440



SE2460

GaAs Infrared Emitting Diode



All Performance Curves Show Typical Values

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