



*Representative photograph, actual product appearance may vary.*

*Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.*

## SE2470-002

### SE Series AlGaAs Infrared Emitting Diode, Miniature Hermetically Sealed Metal Pill Style Package

#### Features

- Miniature, hermetically sealed, pill style, metal can package
- 18 ° (nominal) beam angle
- Wide operating temperature range [-55 °C to 125 °C]
- Higher power output than GaAs at equivalent drive currents
- Ideal for direct mounting to printed circuit boards
- 880 nm wavelength
- Mechanically and spectrally matched to SD2420 photodiode, SD2440 phototransistor and SD2410 photodarlington

#### Description

The SE2470 is a high intensity aluminum gallium arsenide infrared emitting diode mounted in a hermetically sealed, glass lensed, metal can package. This package directly mounts in double sided PC boards. These devices typically exhibit 70% greater power intensity than gallium arsenide devices at the same forward current.



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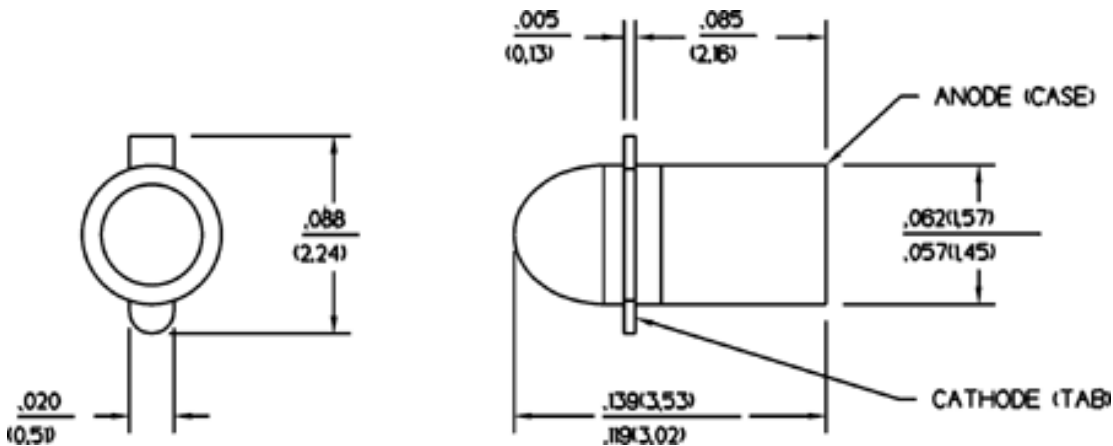
Product Specifications	
Product Type	IR Component
Power Output	6.0 mW/sr min
Beam Angle (Degree)	18
Package Style	Miniature, Pill
Package Components	Metal
Forward Current	50 mA
Continuous Forward Current	75 mA
Forward Voltage	1.8 V
Reverse Breakdown Voltage	3 V
Output Wavelength	880 nm

<b>Spectral Bandwidth</b>	80 nm
<b>Spectral Shift With Temperature</b>	0.2 nm/°C
<b>Rise and Fall Time</b>	0.7 μs
<b>Power Dissipation</b>	125 mW
<b>Operating Temperature Range</b>	-55 °C to 125 °C [-67 °F to 257 °F]
<b>Availability</b>	Global
<b>Product Name</b>	Infrared Emitting Diode

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**SE2470-002**

SE Series AlGaAs Infrared Emitting Diode, Miniature Hermetically Sealed Metal Pill Style Package

Anode



Cathode

**Honeywell**

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**SE2470-002**

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** WARNING**

**PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

** WARNING**

**MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**