



## SEP8506-001

### SEP Series GaAs Infrared Emitting Diode, Side-emitting Plastic Package

*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.*

### Features

- Side-emitting plastic package
- 50 ° (nominal) beam angle
- 935 nm wavelength
- Mechanically and spectrally matched to SDP8406 phototransistor, SDP8106 photodarlington and SDP8000/8600 series Schmitt trigger

### Description

The SEP8506 is a gallium arsenide infrared emitting diode molded in a side-emitting red plastic package. The chip is positioned to emit radiation through a plastic lens from the side of the package.



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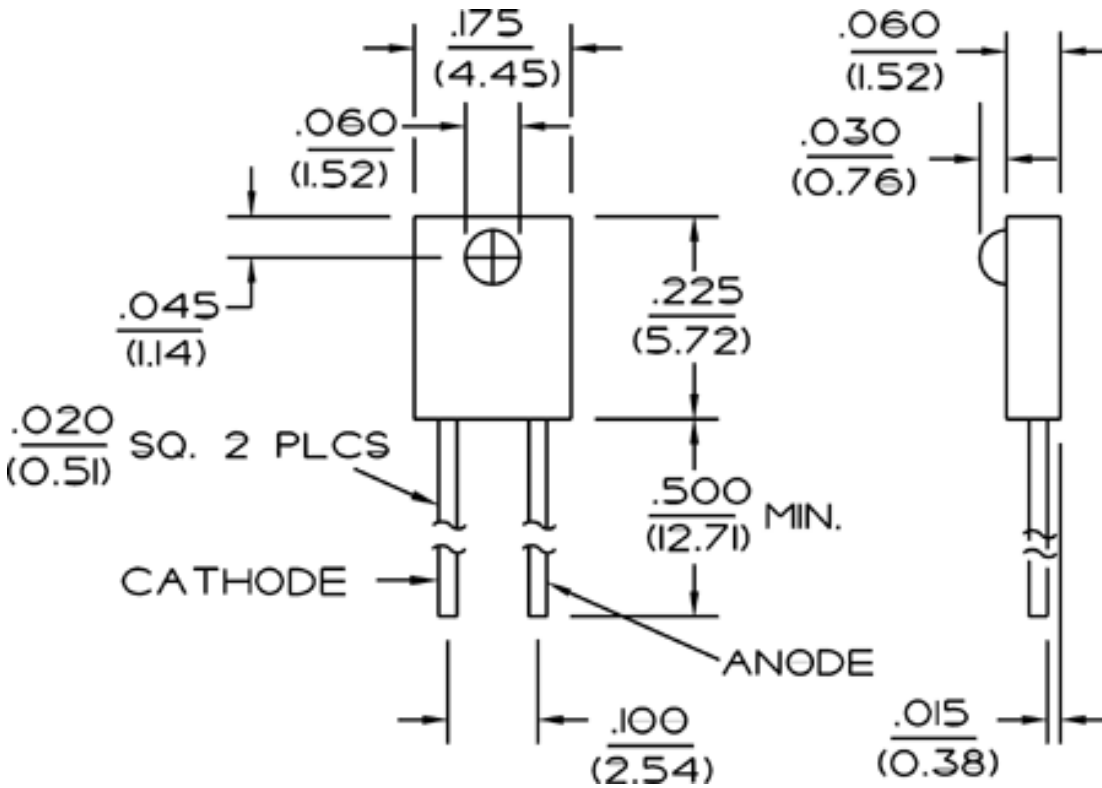
Product Specifications	
Product Type	IR Component
Power Output	0.05 - 0.36 mW/cm <sup>2</sup>
Beam Angle (Degree)	50
Package Style	Side-Emitting
Package Components	Plastic
Forward Current	20 mA
Continuous Forward Current	50 mA
Forward Voltage	1.5 V
Reverse Breakdown Voltage	3 V
Output Wavelength	935 nm
Spectral Bandwidth	50 nm
Spectral Shift With Temperature	0.3 nm/°C

<b>Rise and Fall Time</b>	0.7 $\mu$ s
<b>Power Dissipation</b>	100 mW
<b>Operating Temperature Range</b>	-40 °C to 85 °C [-40 °F to 185 °F]
<b>Availability</b>	Global
<b>Product Name</b>	Infrared Emitting Diode

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**SEP8506-001**

SEP Series GaAs Infrared Emitting Diode, Side-emitting Plastic Package

Anode



Cathode

**Honeywell**

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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.**