



## SEP8505-002

### SEP Series GaAs Infrared Emitting Diode, T-1 Package

#### Features

- T-1 package
- 15 ° (nominal) beam angle
- 935 nm wavelength
- Consistent on-axis optical properties
- Mechanically and spectrally matched to SDP8405 phototransistor and SDP8105 photodarlington

*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.*

#### Description

The SEP8505 is a gallium arsenide infrared emitting diode transfer molded in a T-1 red plastic package. Transfer molding of this device assures superior optical centerline performance compared to other molding processes. Lead lengths are staggered to provide a simple method of polarity identification.



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#### Product Specifications

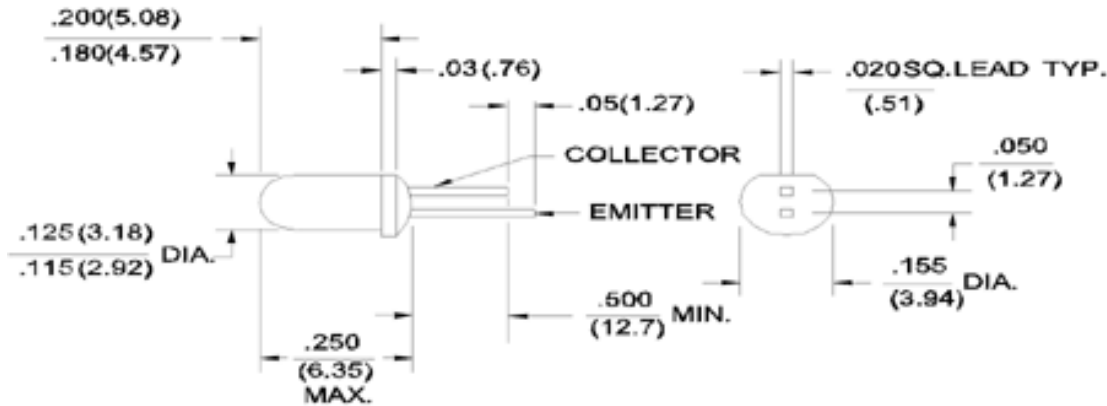
<b>Product Type</b>	IR Component
<b>Power Output</b>	1.0 - 4.0 mW/cm <sup>2</sup> maximum
<b>Beam Angle (Degree)</b>	15
<b>Package Style</b>	T1
<b>Package Components</b>	Plastic
<b>Forward Current</b>	20 mA
<b>Continuous Forward Current</b>	50 mA
<b>Forward Voltage</b>	1.5 V
<b>Reverse Breakdown Voltage</b>	3 V
<b>Output Wavelength</b>	935 nm
<b>Spectral Bandwidth</b>	50 nm
<b>Spectral Shift With Temperature</b>	0.3 nm/°C

Rise and Fall Time	0.7 $\mu$ s
Power Dissipation	70 mW
Operating Temperature Range	-55 °C to 125 °C [-67 °F to 257 °F]
Availability	Global
Product Name	Infrared Emitting Diode



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## SEP8505-002

SEP Series GaAs Infrared Emitting Diode, T-1 Package

Anode



Cathode

**Honeywell**

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**SEP8505-002**

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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.**

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