



SEP8705-002

SEP Series AlGaAs Infrared Emitting Diode, T-1 Package

Features

- T-1 package
- 15 ° (nominal) beam angle
- 880 nm wavelength
- Consistent optical properties
- Higher output than GaAs at equivalent drive current
- 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 SEP8705 is an aluminum gallium arsenide infrared emitting diode transfer molded in a T-1 smoke gray plastic package. Transfer molding of this device assures superior optical centerline performance compared to other molding processes. These devices typically exhibit 70% greater power intensity compared to GaAs devices at the same forward current. Lead lengths are staggered to provide a simple method of polarity identification.



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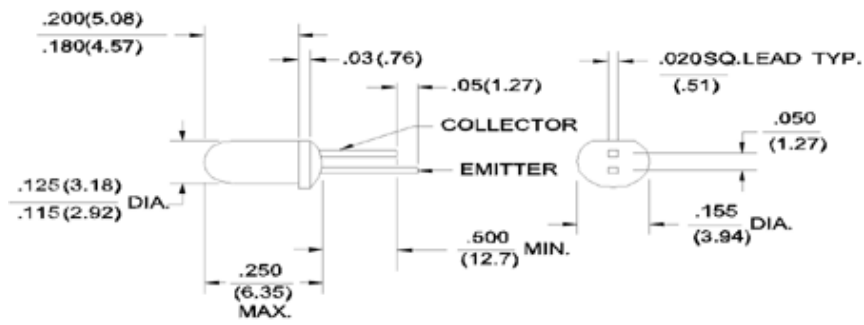
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Product Specifications	
Product Type	IR Component
Power Output	1.4 - 5.6 mW/cm ²
Beam Angle (Degree)	15
Package Style	T1
Package Components	Plastic
Forward Current	20 mA
Continuous Forward Current	50 mA
Forward Voltage	1.7 V
Reverse Breakdown Voltage	3 V
Output Wavelength	880 nm
Spectral Bandwidth	80 nm
Spectral Shift With Temperature	0.2 nm/°C
Rise and Fall Time	0.7 μs
Power Dissipation	70 mW
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Availability	Global
Product Name	Infrared Emitting Diode



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SEP Series AlGaAs Infrared Emitting Diode, T-1 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.

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