



SEP8706-003

SEP Series AlGaAs 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-looking plastic package
- 50 ° (nominal) beam angle
- 880 nm wavelength
- Higher output power than GaAs at equivalent drive current
- Mechanically and spectrally matched to SDP8406 phototransistor, SDP8106 photodarlington and SDP8000/8600 series Schmitt trigger

Description

The SEP8706 is an aluminum gallium arsenide infrared emitting diode molded in a side-emitting smoke gray plastic package. The chip is positioned to emit radiation through a plastic lens from the side of the package. These devices typically exhibit 70% greater power intensity than gallium arsenide devices at the same forward current.



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Product Specifications

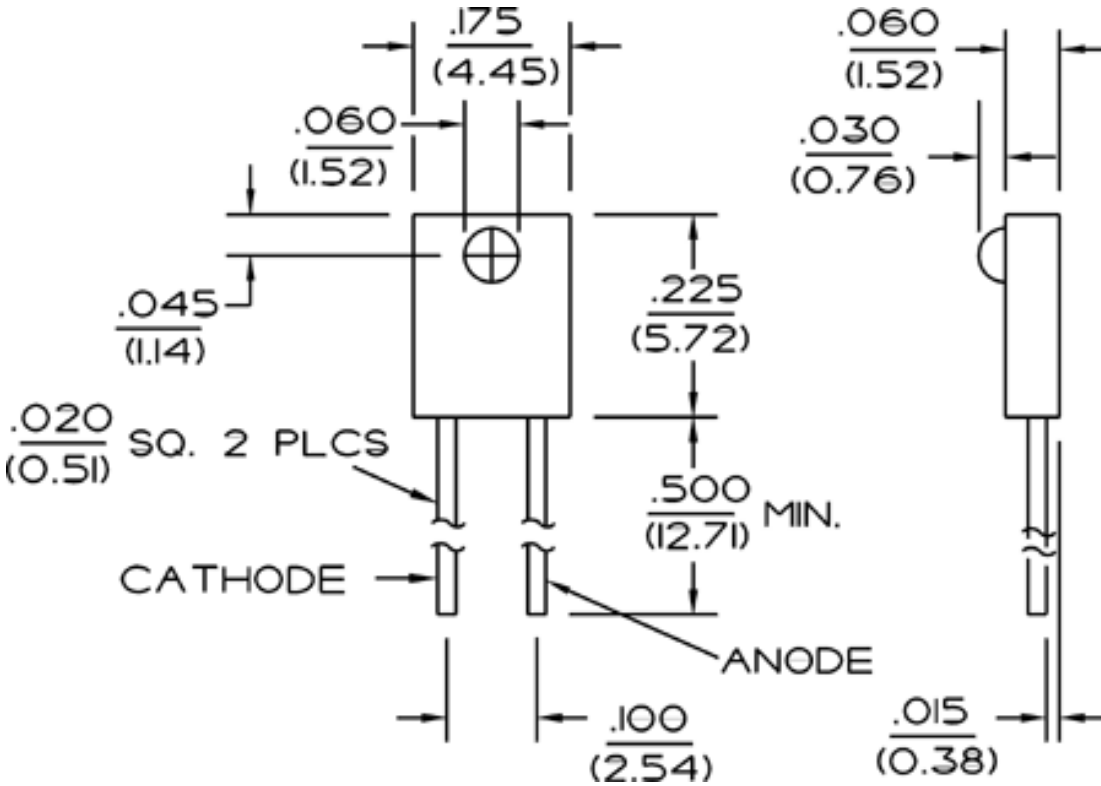
Product Type	IR Component
Power Output	0.65 mW/cm ² min
Beam Angle (Degree)	50
Package Style	Side-Emitting
Package Components	Plastic
Forward Current	20 mA
Continuous Forward Current	50 mA
Forward Voltage	1.7 V
Reverse Breakdown Voltage	3 V
Output Wavelength	880 nm

Spectral Bandwidth	80 nm
Spectral Shift With Temperature	0.2 nm/°C
Rise and Fall Time	0.7 μs
Power Dissipation	100 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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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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