



*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.*

## SE5455-003

**SE Series GaAs Infrared Emitting Diode, TO-46 Metal Can Package**

### Features

- TO-46 metal can package
- Choice of flat window or lensed package
- 90 ° or 20 ° (nominal) beam angle option
- 935 nm wavelength
- Wide operating temperature range [-55 °C to 125 °C]
- Ideal for high pulsed current applications
- Mechanically and spectrally matched to SD3421/5421 photodiode, SD3443/5443/5491 phototransistor, SD3410/5410 photodarlington and SD5600 series Schmitt trigger

### Description

The SE3455/5455 series consists of a gallium arsenide infrared emitting diode mounted in a TO-46 metal can package. The SE3455 series has flat window cans providing a wide beam angle, while the SE5455 series has glass lensed cans providing a narrow beam angle. These devices are constructed with dual bond wires suitable for pulsed current applications. The TO-46 packages offer high power dissipation capability and are ideally suited for operation in hostile environments.



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Product Specifications	
Product Type	IR Component
Power Output	4.8 mW min
Beam Angle (Degree)	20
Package Style	T0-46, Dome Lensed
Package Components	Metal
Forward Current	100 mA
Continuous Forward Current	100 mA
Forward Voltage	1.7 V
Reverse Breakdown Voltage	3 V
Output Wavelength	935 nm
Spectral Bandwidth	50 nm
Spectral Shift With Temperature	0.3 nm/°C
Rise and Fall Time	0.7 $\mu$ s
Power Dissipation	150 mW
Operating Temperature Range	-55 °C to 125 °C [-67 °F to 257 °F]
Availability	Global
Product Name	Infrared Emitting Diode

# Honeywell

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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.**