



## 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

*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 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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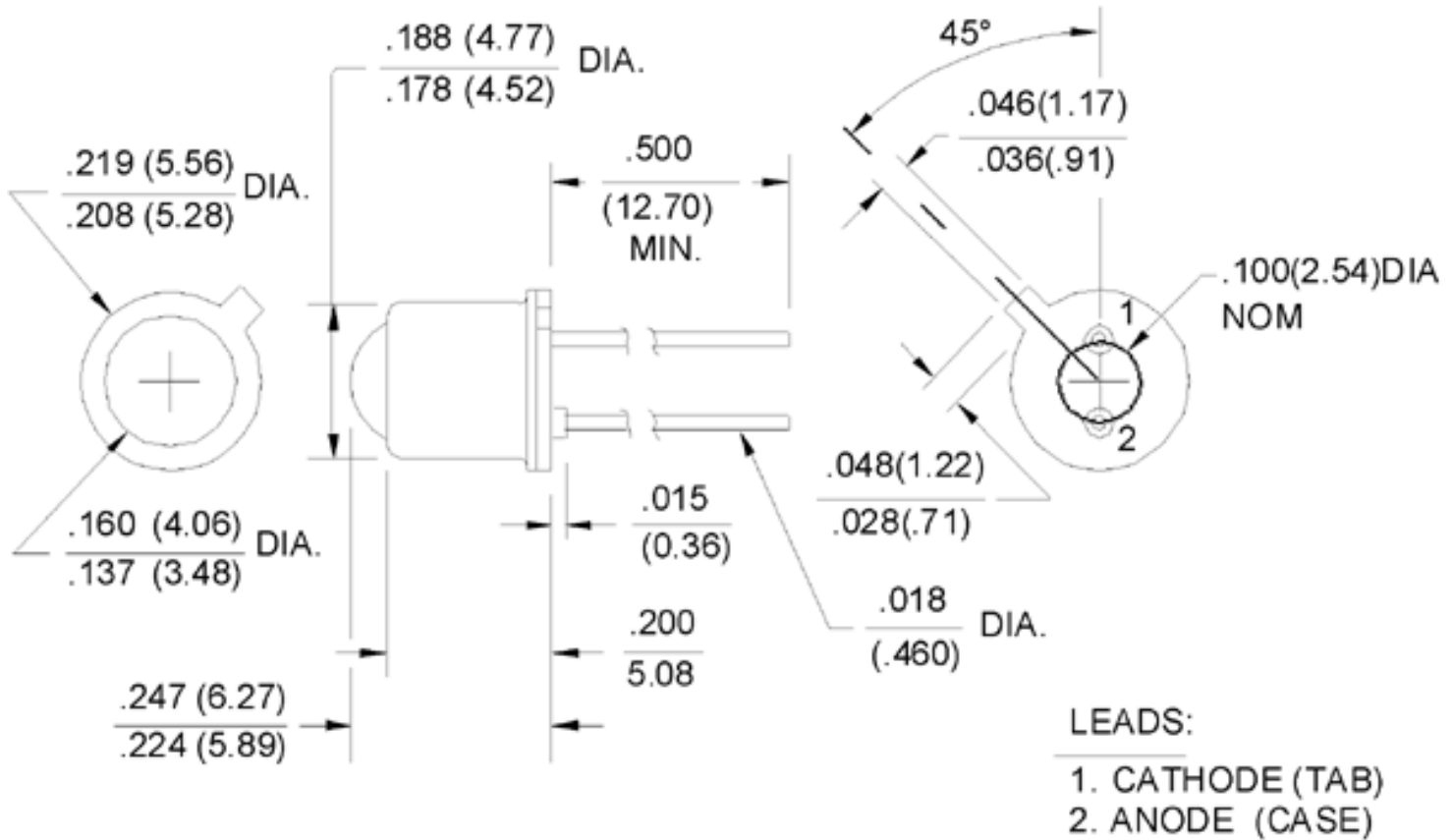
Product Specifications	
<b>Product Type</b>	IR Component
<b>Power Output</b>	4.8 mW min
<b>Beam Angle (Degree)</b>	20
<b>Package Style</b>	TO-46, Dome Lensed
<b>Package Components</b>	Metal
<b>Forward Current</b>	100 mA
<b>Continuous Forward Current</b>	100 mA
<b>Forward Voltage</b>	1.7 V
<b>Reverse 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
<b>Rise and Fall Time</b>	0.7 μs
<b>Power Dissipation</b>	150 mW
<b>Operating Temperature Range</b>	-55 °C to 125 °C [-67 °F to 257 °F]
<b>Availability</b>	Global
<b>Product Name</b>	Infrared Emitting Diode

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