LITEON

GaAlAs T-1 $^{3}/_{4}$ Modified 5 ϕ Infrared Emitting Diode

LTE-2871/LTE-2871C

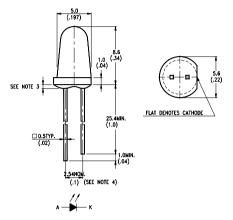
Features

- Selected to specific on-line intensity and radiant intensity ranges.
- · Low cost plastic end looking package.
- T-1³/₄modified package.
- The LTE-2871 series are made with Gallium Aluminum Arsenide window layer on Gallium Arsenide infrared emitting diodes.

Description

The LTE-2871 series are high intensity Gallium Aluminum Arsenide infrared emitting diodes mounted in clear plastic end looking packages. The LTE-2871 series provides a broad range of intensity selection. Suffix C-smoke color lens.

Package Dimensions



Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25mm (.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.5mm (.059") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

Absolute Maximum Ratings at Ta=25°C

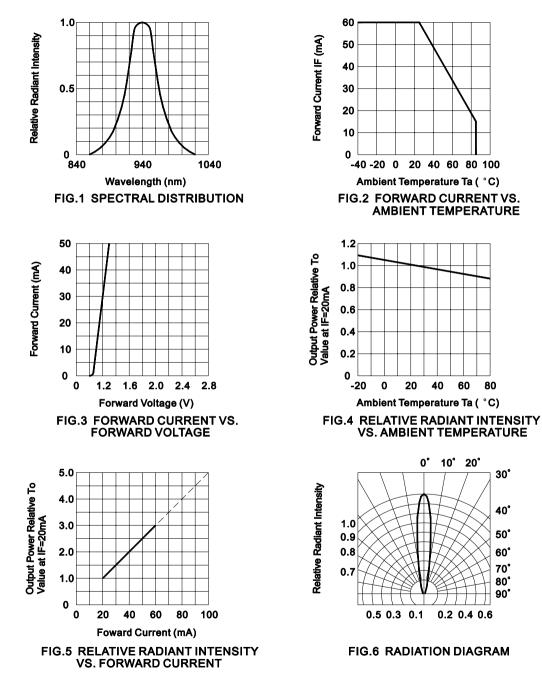
Parameter	Maximum Rating	Unit			
Power Dissipation	90	mW			
Peak Forward Current(300pps, 10 µ s pulse)	1	A			
Continuous Forward Current	60	mA			
Reverse Voltage	5	V			
Operating Temperature Range	-40°C t	-40°C to +85°C			
Storage Temperature Range	-55°C to	-55°C to +100°C			
Lead Soldering Temperature [1.6mm (.063 in.) from body]	260°C fo	260°C for 5 Seconds			

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
*Aperture Radiant Incidence	Ee	0.7	1.6		mW/cm ²	I⊧=20mA
Radiant Intensity	le	5.25	12		mW/sr	I⊧=20mA
Peak Emission Wavelength	λ Peak		940		nm	I⊧=20mA
Spectral Line Half-Width	Δλ		50		nm	IF=20mA
Forward Voltage	VF		1.2	1.6	V	I⊧=20mA
Reverse Current	IR			100	μA	Vr=5V
View Angle (See Fig. 6)	2 ⊕ ¹ /2		16		deg	

Note: *Ee is a measurement of the average radiant incidence upon a sensing area 1cm² in perpendicular to and centered on the mechanical axis of the lens and 26.8mm from lens.

Typical Electrical/Optical Characteristic Curves (25°C Ambient Temperature Unless Otherwise Noted)



80

30°

40°

50°

60°

70°

80° 90°