

查询LTE-2871供应商

LITEON

捷多邦 专业PCB打样工厂, 24小时加急  
GaAlAs T-1 3/4 Modified 5 φ 出货  
Infrared Emitting Diode  
LTE-2871/LTE-2871C

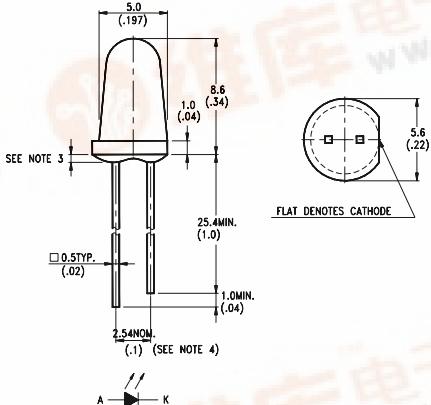
## Features

- Selected to specific on-line intensity and radiant intensity ranges.
- Low cost plastic end looking package.
- T-1 3/4 modified 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:

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

## Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

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

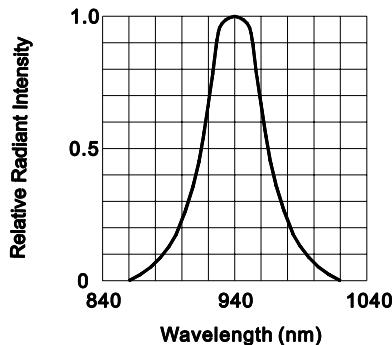
## Electrical Optical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
*Aperture Radiant Incidence	Ee	0.7	1.6		$\text{mW/cm}^2$	$I_f=20\text{mA}$
Radiant Intensity	Ie	5.25	12		$\text{mW/sr}$	$I_f=20\text{mA}$
Peak Emission Wavelength	$\lambda$ Peak		940		nm	$I_f=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$		50		nm	$I_f=20\text{mA}$
Forward Voltage	Vf		1.2	1.6	V	$I_f=20\text{mA}$
Reverse Current	Ir			100	$\mu\text{A}$	$V_R=5\text{V}$
View Angle (See Fig. 6)	$2\theta^{1/2}$		16		deg	

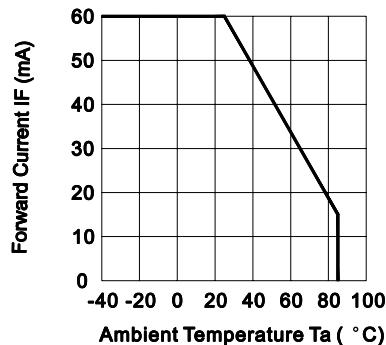
Note: \*Ee is a measurement of the average radiant incidence upon a sensing area  $1\text{cm}^2$  in perpendicular to and



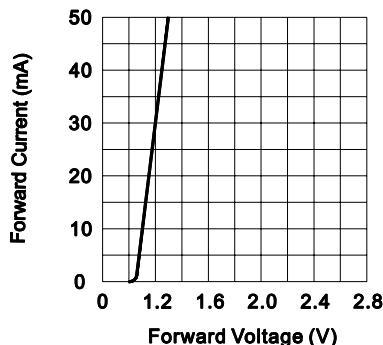
**Typical Electrical/Optical Characteristic Curves  
(25°C Ambient Temperature Unless Otherwise Noted)**



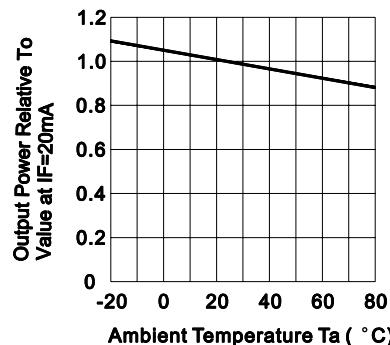
**FIG.1 SPECTRAL DISTRIBUTION**



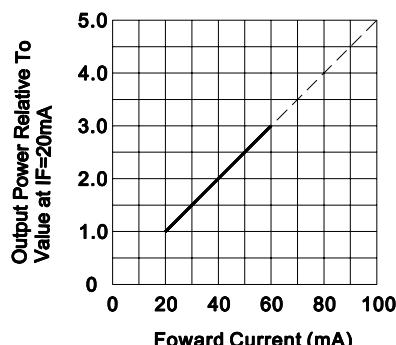
**FIG.2 FORWARD CURRENT VS.  
AMBIENT TEMPERATURE**



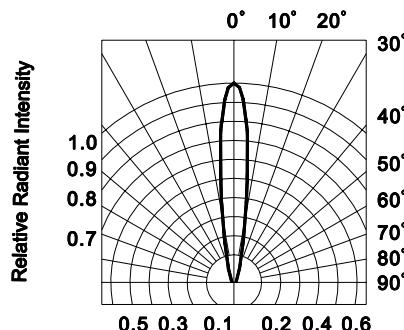
**FIG.3 FORWARD CURRENT VS.  
FORWARD VOLTAGE**



**FIG.4 RELATIVE RADIANT INTENSITY  
VS. AMBIENT TEMPERATURE**



**FIG.5 RELATIVE RADIANT INTENSITY  
VS. FORWARD CURRENT**



**FIG.6 RADIATION DIAGRAM**