

# NTE30116 IR LED Emitter, 940nm T-1 3/4 (5mm) Package

### **Description:**

The NTE30116 is an infrared LED emitter in a T-1 3/4 (5mm) round head package with flange and a tinted blue lens.

#### Features:

Chip Material: GaAlAs

Lens: Tinted Blue

Peak Wavelength: 940nm

Viewing Angle: 20°

Note 1. IFP Conditions: Pulse Width ≤ 100µs, Duty Cycle ≤ 1%

Note 2. Soldering time  $\leq$  5 seconds.

## Electrical/Optical Characteristics: (T<sub>A</sub> = +25°C unless otherwise specified)

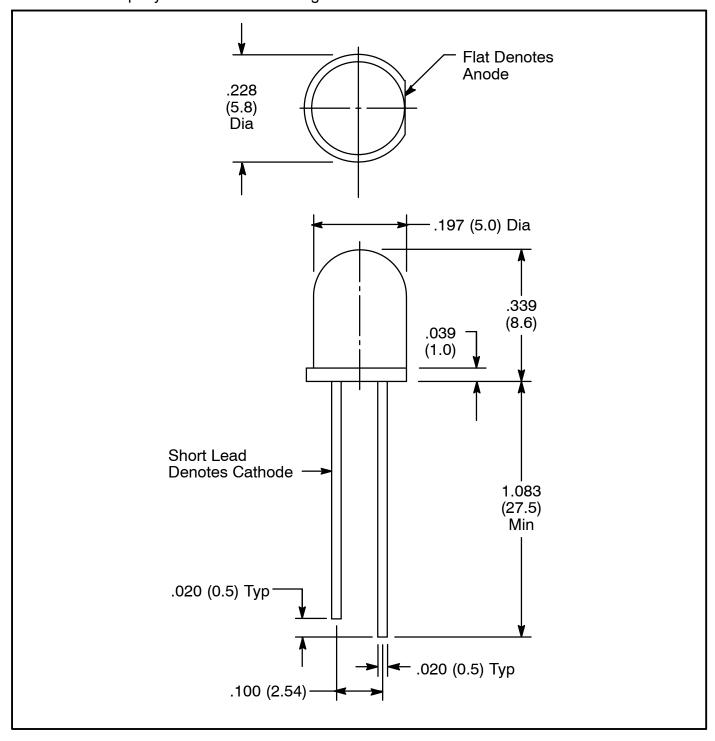
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Radiant Intensity	Ι <sub>Ε</sub>	I <sub>F</sub> = 20mA	10	_	20	mW/sr
		I <sub>F</sub> = 100mA	70	80	90	mW/sr
		I <sub>F</sub> = 1A	_	200	_	mW/sr
Peak Wavelength	λ <sub>P</sub>	I <sub>F</sub> = 20mA	_	940	_	nm
Spectral Bandwidth	Δλ	I <sub>F</sub> = 20mA	_	45	_	nm
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20mA	1.2	_	1.4	V
		I <sub>F</sub> = 100mA	1.4	_	1.8	V
		I <sub>F</sub> = 1A	2.6	_	4.0	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5V	_	_	5	μΑ
Viewing Angle	20 1/2	I <sub>F</sub> = 20mA	_	20	_	deg

Note 1. IFP Conditions: Pulse Width  $\leq 100 \mu s$ , Duty Cycle  $\leq 1\%$ 



### **Instructions, Lead Forming:**

- 1. During lead formation, the leads should be bent at a point at least 3mm away from the base of the epoxy bulb.
- 2. Lead forming should be done before soldering.
- 3. Avoid stressing the LED package during lead forming. The stress to the base may damage the LED's characteristics or it may break the LEDs.
- 4. Cut the LED leadframes at room temperature. Cutting the leadframes at high temperatures may cause failure of the LEDs.
- 5. When mounting the LEDs onto a PCB, the PCB holes must be aligned exactly with the lead position of the LED. If the LEDs are mounted with stress at the leads, it causes deterioration of the epoxy resin and this will degrade the LEDs.



# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Infrared Emitters category:

Click to view products by NTE manufacturer:

Other Similar products are found below:

LTE-309 LTE-3279K LTE-4206C LTE-4208C EAILP03RDAA6 IR333C LTE-2871C LTE-4238 ASDL-4264-C22 OED-EL305F4C50-HT
OP216-004 LTE-3376 EEL109 HL-PST-1608IR1C-L4 MHT155IRRCT SFH 7016 SFH 7015 IN-S126ETIR IN-S126DSHIR INS126ETHIR IN-P32ZTHIR IN-S42CTQHIR IN-S126BTHIR IN-S63DTHIR IN-S85BTHIR IN-S63FTHIR EAIST3535A4 MHT153IRCT
MHS153IRCT IR533C RE30A6-IRT-FS RE30A6-IRX-FS RE30AX-IRT-FS RE30AX-IRX-FS RF-E30A3-IRX-FS RF-E30A5-IRT-FS RFE30AX-IRT-FS RF-P28A3-IRN-FT RF-P28A6-IRN-FT RF-P42D6-IPJ-FT RF-P42D6-IPL-FT RF-P43D6-IPL-FT RF-P43D6-IPN-FT
HIR204C/H0 HIR323C LTE-209 HSDL-4400#011 IR12-21C/TR8 IR17-21C/TR8 IR26-21C/L110/TR8