

L-56BID

HIGH EFFICIENCY RED

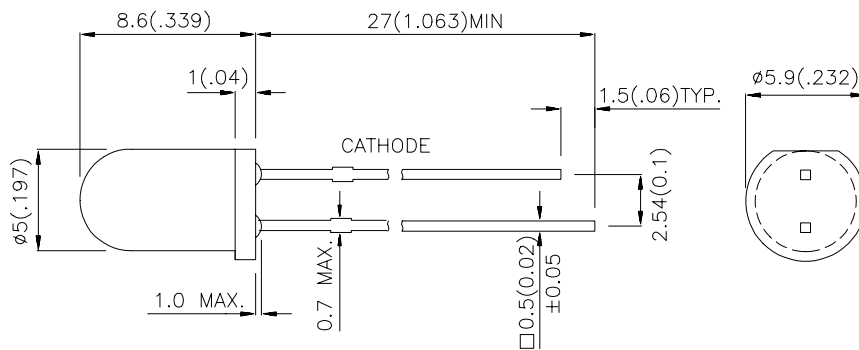
Features

- T-1 3/4 PACKAGE .
- WITH BUILT-IN BLINKING IC.
- OPERATION VOLTAGE FROM 3.5V TO 14V.
- BLINKING FREQUENCY FROM 3.0Hz TO 1.5Hz.

Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) V=9V | | Viewing Angle |
|----------|--------------------------------|--------------|------------------|------|---------------|
| | | | Min. | Typ. | 2θ1/2 |
| L-56BID | HIGH EFFICIENCY RED(GaAsP/GaP) | RED DIFFUSED | 18 | 40 | 60° |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value..

Electrical / Optical Characteristics at T_A=25°C

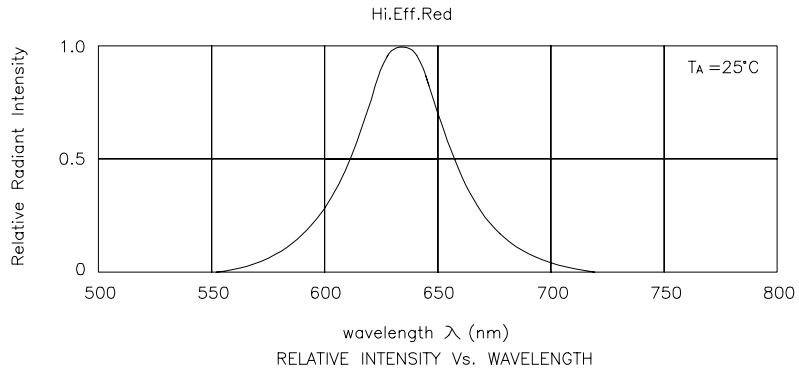
| Symbol | Parameter | Device | Min | Typ | Units | Test Conditions |
|-------------------|--------------------------|---------------------|-----|-----|-------|--|
| λ _{peak} | Peak Wavelength | High Efficiency Red | | 627 | nm | |
| λ _D | Dominate Wavelength | High Efficiency Red | | 625 | nm | |
| Δλ _{1/2} | Spectral Line Half-width | High Efficiency Red | | 45 | nm | |
| I _F | Forward Current | High Efficiency Red | 8 | 22 | mA | Min :V _F =3.5V Typ :V _F =5V |
| I _{SON} | Supply Current | High Efficiency Red | | 8 | mA | V _F =3.5V |
| I _{SON} | Supply Current | High Efficiency Red | | 44 | mA | V _F =14V |
| f | Blink Frequency | High Efficiency Red | | 3 | Hz | V _F =3.5V |
| f | Blink Frequency | High Efficiency Red | | 1.5 | Hz | V _F =14V |

Absolute Maximum Ratings at T_A=25°C

| Parameter | High Efficiency Red | Units |
|-----------------------------|---------------------|-------|
| Power dissipation | 310 | mW |
| Forward Voltage | 14 | V |
| Reverse Voltage | 0.5 | V |
| Operating Temperature | -40°C To +70°C | |
| Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [1] | 260°C For 5 Seconds | |

Note:

1. 2mm below package base.



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