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T-1 (3mm) SOLID STATE LAMP

L-1154ID HIGH EFFICIENCY RED

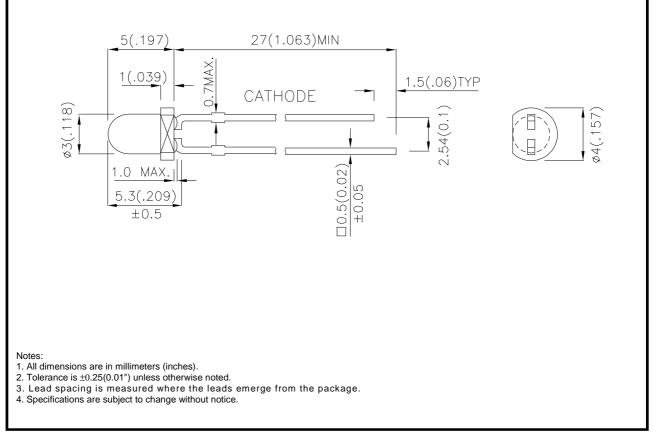
Features

LOW POWER CONSUMPTION.
POPULAR T-1 DIAMETER PACKAGE.
GENERAL PURPOSE LEADS.
RELIABLE AND RUGGED.
LONG LIFE - SOLID STATE RELIABILITY.
AVAILABLE ON TAPE AND REEL.
ROHS COMPLIANT.

Description

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

Package Dimensions



SPEC NO: DSAA5151 APPROVED: J. Lu

REV NO: V.5 CHECKED: Allen Liu DATE: MAR/17/2005 DRAWN: W.J.ZHU

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| Selection Gui | de | | | | |
|---------------|---------------------------------|--------------|--------------------|------|------------------|
| Part No. | Dice | Lens Type | lv (mcd) @ 10mA | | Viewing Angle |
| | | | Min. | Тур. | 2 0 1/2 |
| L-1154ID | HIGH EFFICIENCY RED (GaAsP/GaP) | RED DIFFUSED | 8 | 25 | 60° |

Note:

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

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|---------------------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | High Efficiency Red | 627 | | nm | IF=20mA |
| λD | Dominant Wavelength | High Efficiency Red | 625 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | High Efficiency Red | 45 | | nm | IF=20mA |
| С | Capacitance | High Efficiency Red | 15 | | pF | VF=0V;f=1MHz |
| VF | Forward Voltage | High Efficiency Red | 2.0 | 2.5 | V | IF=20mA |
| lr | Reverse Current | High Efficiency Red | | 10 | uA | Vr = 5V |

Absolute Maximum Ratings at TA=25°C

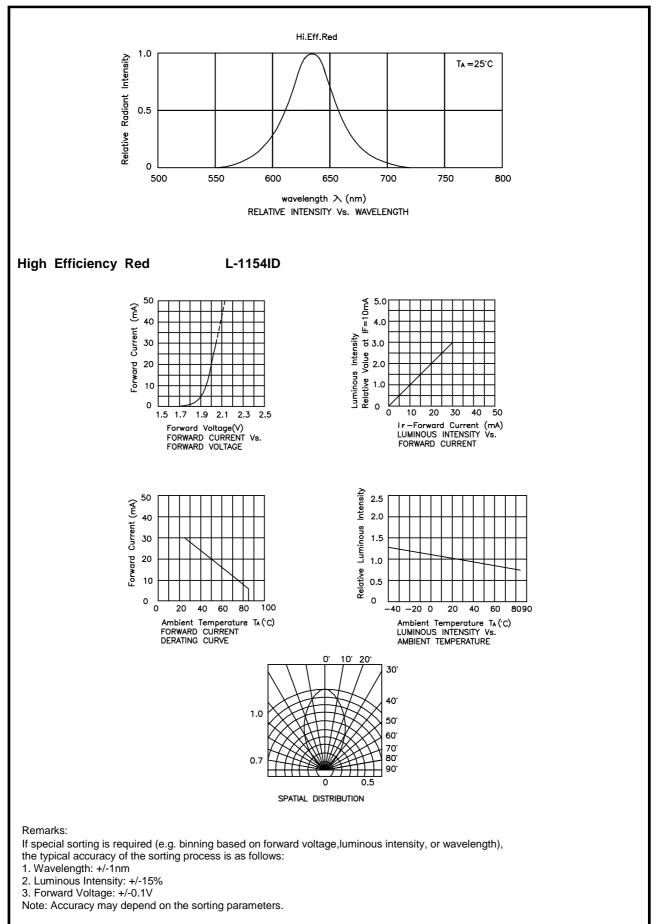
| Parameter | High Efficiency Red | Units | |
|-------------------------------|---------------------|-------|--|
| Power dissipation | 105 | mW | |
| DC Forward Current | 30 | mA | |
| Peak Forward Current [1] | 160 | mA | |
| Reverse Voltage | 5 | V | |
| Operating/Storage Temperature | -40°C To +85°C | | |
| Lead Solder Temperature [2] | 260°C For 3 Seconds | | |
| Lead Solder Temperature [3] | 260°C For 5 Seconds | | |

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.
 3. 5mm below package base.

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