2.0x1.25mm SMD CHIP LED LAMP

Part Number: APT2012EC

High Efficiency Red

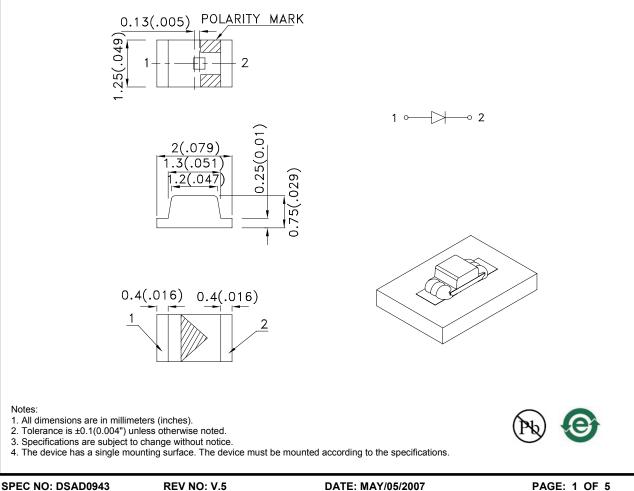
Features

- 2.0mmx1.25mm SMT LED,0.75mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- 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



APPROVED: WYNEC

Notes:

CHECKED: Allen Liu

DRAWN: Y.L.LI

PAGE: 1 OF 5 ERP: 1203001797

Soloction Guida

| Part No. | Dice | Lens Type | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
|-----------|---------------------------------|-------------|------------------------|------|-------------------------|
| | | | Min. | Тур. | 201/2 |
| APT2012EC | High Efficiency Red (GaAsP/GaP) | WATER CLEAR | 4 | 12 | 120° |

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

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

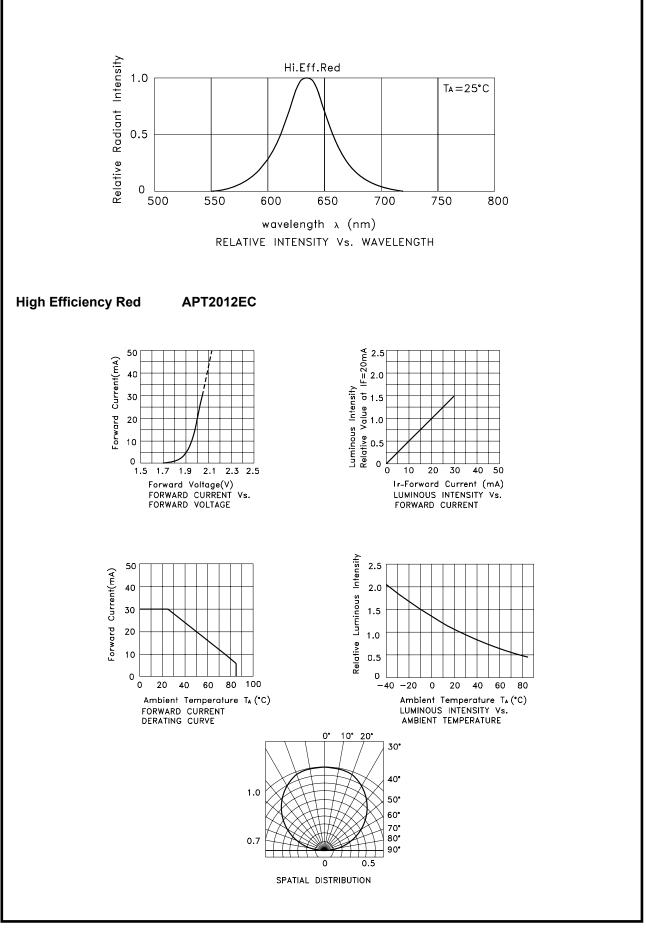
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

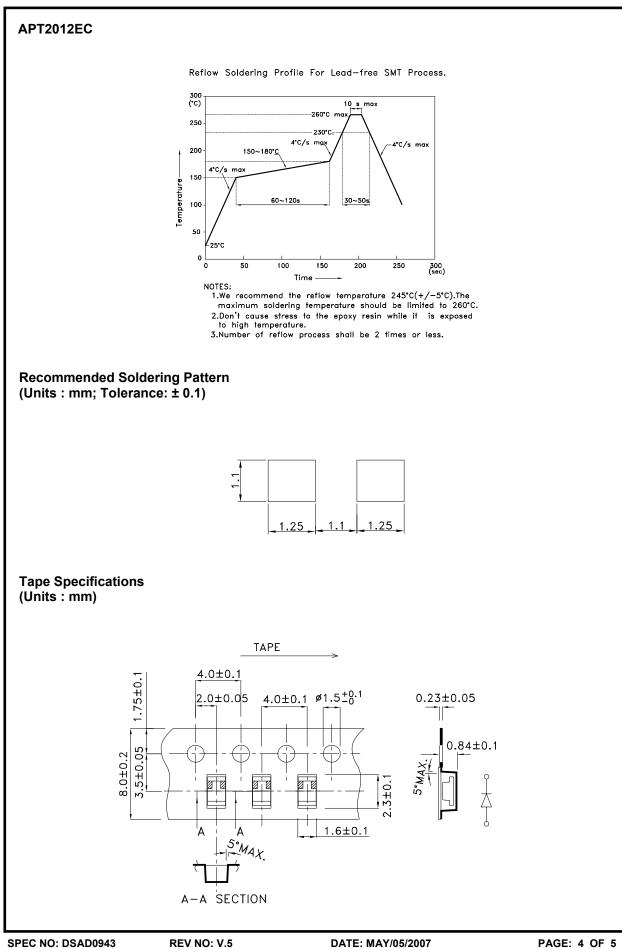
Absolute Maximum Ratings at TA=25°C

| Parameter | High Efficiency Red | Units | | |
|--------------------------|---------------------|-------|--|--|
| Power dissipation | 75 | mW | | |
| DC Forward Current | 30 | mA | | |
| Peak Forward Current [1] | 160 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating Temperature | -40°C To +85°C | | | |
| Storage Temperature | -40°C To +85°C | | | |

Note:

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





APPROVED: WYNEC

CHECKED: Allen Liu

DATE: MAY/05/2007 DRAWN: Y.L.LI

