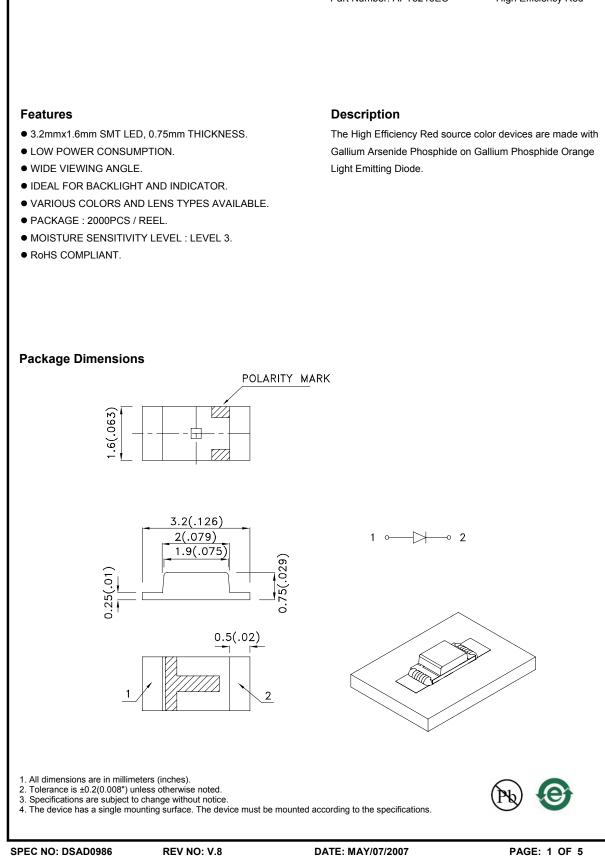
### 3.2mmx1.6mm SMD CHIP LED LAMP

Part Number: APT3216EC

High Efficiency Red

ERP: 1203001913



DRAWN: Y.L.LI

APPROVED: WYNEC

**CHECKED:** Allen Liu

| Selection Guide |                                 |             |                  |      |                      |  |  |  |  |
|-----------------|---------------------------------|-------------|------------------|------|----------------------|--|--|--|--|
| Part No.        | Dice                            | Lens Type   | Iv (mcc<br>@ 20r |      | Viewing<br>Angle [1] |  |  |  |  |
|                 |                                 |             | Min.             | Тур. | 201/2                |  |  |  |  |
| APT3216EC       | High Efficiency Red (GaAsP/GaP) | WATER CLEAR | 4                | 12   | 120°                 |  |  |  |  |

Notes:

1. 61/2 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.

SPEC NO: DSAD0986 APPROVED: WYNEC

REV NO: V.8 CHECKED: Allen Liu DATE: MAY/07/2007 DRAWN: Y.L.LI

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