4.0x4.0mm RIGHT ANGLE SURFACE MOUNT LED LAMP

PRELIMINARY SPEC Part Number: AA4040SURCK Hyper Red **Features** Description • SINGLE COLOR. The Hyper Red source color devices are made with DH • SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER InGaAIP on GaAs substrate Light Emitting Diode. PROCESS. • AVAILABLE ON TAPE AND REEL. • IDEAL FOR BACKLIGHTING. • PACKAGE : 500PCS / REEL. • MOISTURE SENSITIVITY LEVEL : LEVEL 4. • RoHS COMPLIANT. **Package Dimensions** 4[.157] .012 1.4[.055] М 0 9[.114] 6[.142 -0 2 POLARITY /R1 MARK 2.4[.094] 4[.157] 6[.102] 028 ц. 7 ANODE Ċ CATHODÉ 2.85[.112] 1[.04] 2.54[.1] SPACING Notes: 1. All dimensions are in millimeters (inches). 2. Tolerance is ±0.25(0.01") unless otherwise noted. Specifications are subject to change without notice.
The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAA5292 **APPROVED: WYNEC**

REV NO: V.6 **CHECKED: Allen Liu** DATE: MAY/08/2007 DRAWN: Y.L.LI

Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. AA4040SURCK Hyper Red (InGaAIP) WATER CLEAR 70 180 90°

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 | Hyper Red | 650 | | nm | I⊧=20mA |
| λD [1] | Dominant Wavelength | Hyper Red | 635 | | nm | I⊧=20mA |
| Δλ1/2 | Spectral Line Half-width | Hyper Red | 28 | | nm | I⊧=20mA |
| С | Capacitance | Hyper Red | 35 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Hyper Red | 1.95 | 2.5 | V | IF=20mA |
| IR | Reverse Current | Hyper Red | | 10 | uA | VR=5V |

Notes:

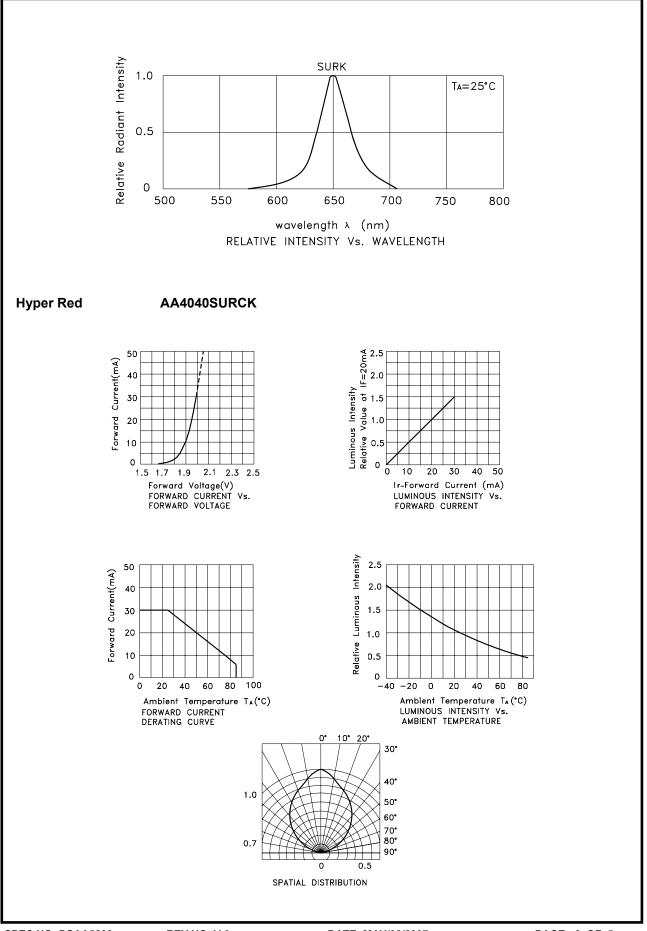
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

| Parameter | Hyper Red | Units | |
|--------------------------|----------------|-------|--|
| Power dissipation | 75 | mW | |
| DC Forward Current | 30 | mA | |
| Peak Forward Current [1] | 185 | mA | |
| Reverse Voltage | 5 | V | |
| Operating Temperature | -40°C To +85°C | | |
| Storage Temperature | -40°C To +85°C | | |

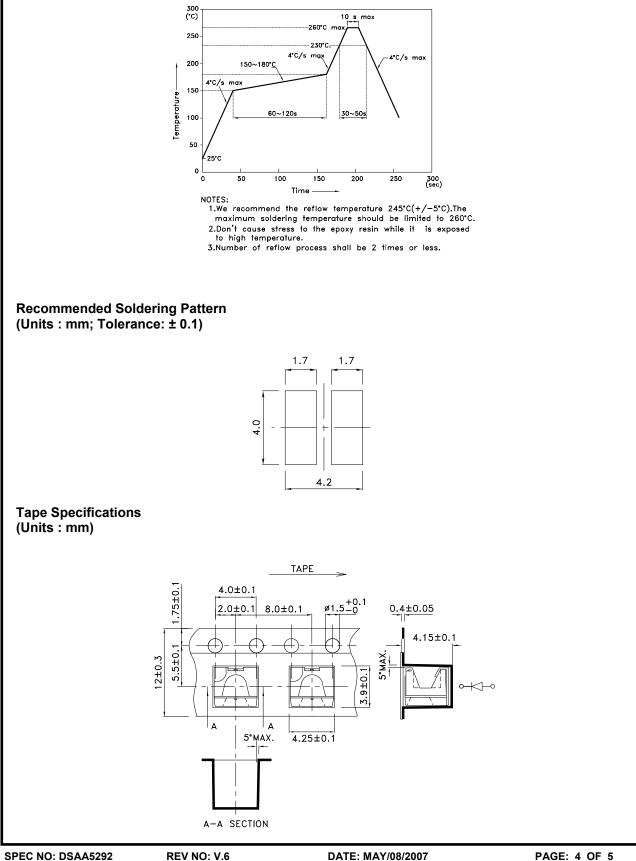
Note:

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



AA4040SURCK

Reflow Soldering Profile For Lead-free SMT Process.



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