### 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:

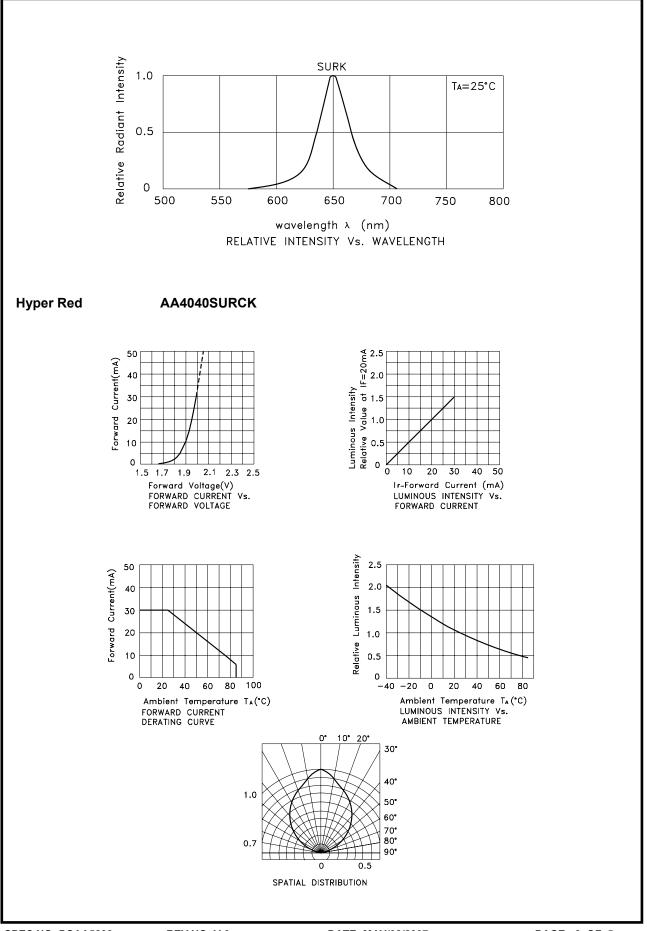
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

#### 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		

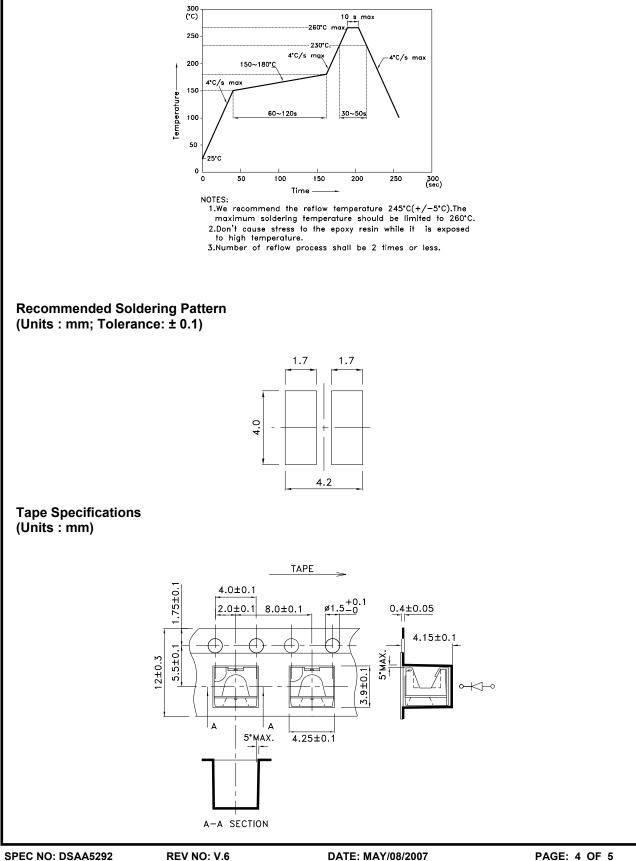
Note:

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



### AA4040SURCK

Reflow Soldering Profile For Lead-free SMT Process.



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PAGE: 4 OF 5 ERP: 1201000479

