### 5.0X6.0mm SURFACE MOUNT LED LAMP

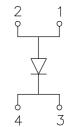
KA-5060SURC-G HYPER RED Description Features The Hyper Red source color devices are made with DH • SINGLE COLOR. InGaAIP on GaAs substrate Light Emitting Diode. • SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS. • AVAILABLE ON TAPE AND REEL. • IDEAL FOR BACKLIGHTING. • PACKAGE : 500PCS / REEL. •RoHS COMPLIANT. **Package Dimensions** 5.7 [0.224] 0.067 0.039 5 [0.197 Ø3.2[0.126] 2 236 0 4 3 Ø

POLARITY MARK

1.4 [0.055]

2.4 [0.094]

0.2[0.008]



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.

3. Specifications are subject to change without notice.

[0.055]

4

0.039

0.051]

SPEC NO: DSAB8531 APPROVED: J. Lu REV NO: V.8 CHECKED: Allen Liu DATE: MAR/13/2005 DRAWN: B.H.LI

| Selection Guide |                     |             |                    |      |                  |  |  |  |
|-----------------|---------------------|-------------|--------------------|------|------------------|--|--|--|
| Part No.        | Dice                | Lens Type   | lv (mcd)<br>@ 50mA |      | Viewing<br>Angle |  |  |  |
|                 |                     |             | Min.               | Тур. | 201/2            |  |  |  |
| KA-5060SURC-G   | HYPER RED (InGaAIP) | WATER CLEAR | 480                | 750  | 100°             |  |  |  |

Note: 1.  $\theta$ 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

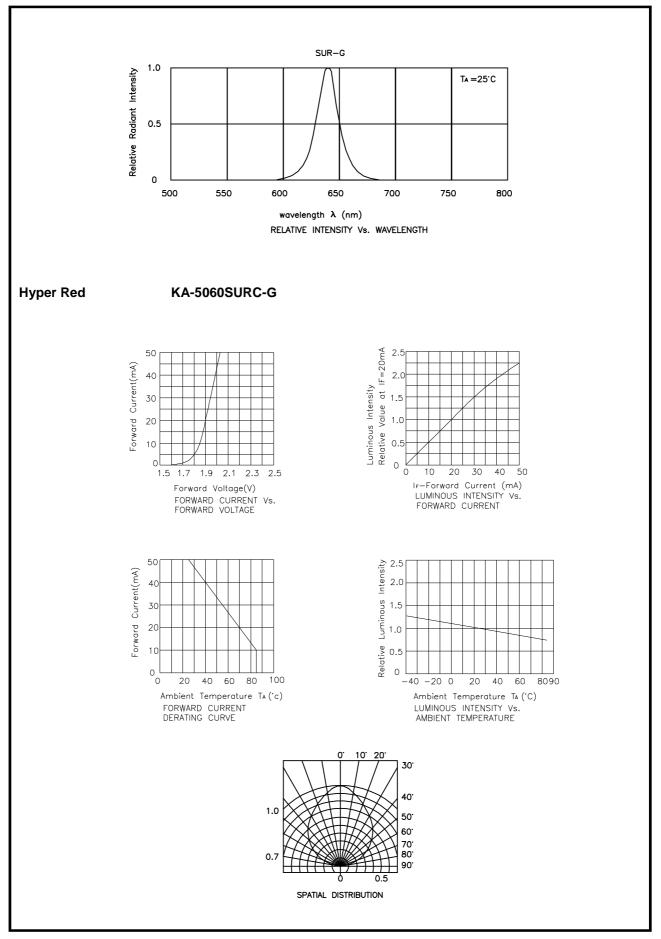
| Symbol | Parameter                | Device    | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|-----------|------|------|-------|-----------------|
| λpeak  | Peak Wavelength          | Hyper Red | 640  |      | nm    | IF=20mA         |
| λD     | Dominant Wavelength      | Hyper Red | 630  |      | nm    | IF=20mA         |
| Δλ1/2  | Spectral Line Half-width | Hyper Red | 22   |      | nm    | IF=20mA         |
| С      | Capacitance              | Hyper Red | 45   |      | pF    | VF=0V;f=1MHz    |
| VF     | Forward Voltage          | Hyper Red | 1.9  | 2.5  | V     | IF=20mA         |
| IR     | Reverse Current          | Hyper Red |      | 10   | uA    | VR = 5V         |

#### Absolute Maximum Ratings at TA=25°C

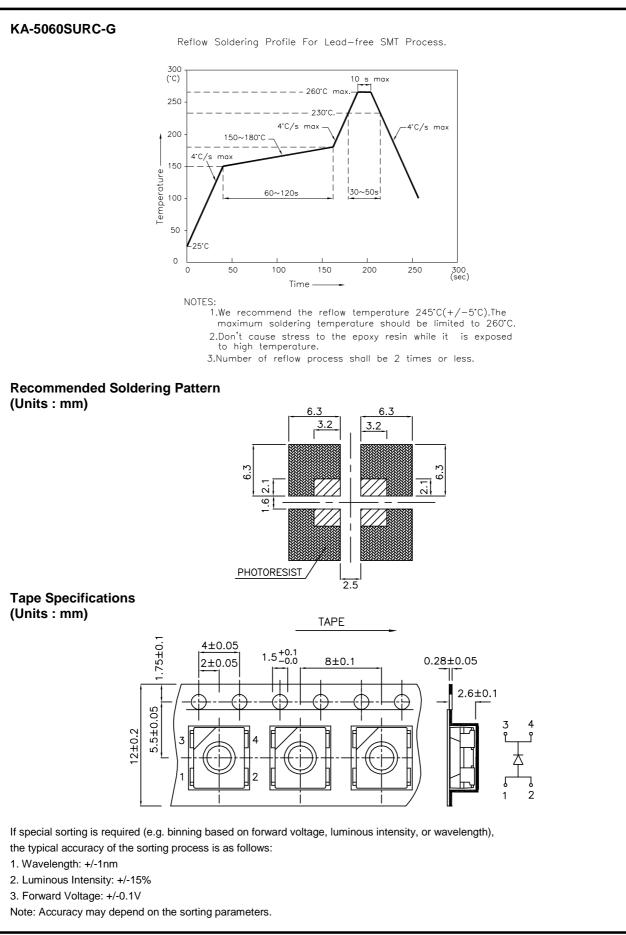
| Parameter                     | Hyper Red      | Units |  |
|-------------------------------|----------------|-------|--|
| Power dissipation             | 125            | mW    |  |
| DC Forward Current            | 50             | mA    |  |
| Peak Forward Current [1]      | 150            | mA    |  |
| Reverse Voltage               | 5              | V     |  |
| Operating/Storage Temperature | -40°C To +85°C |       |  |

Note:

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



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