SUBMINIATURE SOLID STATE LAMP

KM2520SURCK09

HYPER RED

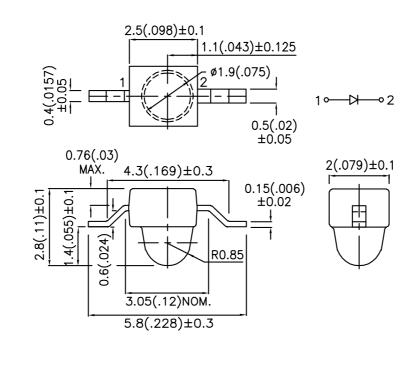
Features

- •SUBMINIATURE PACKAGE.
- •WIDE VIEWING ANGLE.
- •Z-BEND LEAD.
- •LONG LIFE SOLID STATE RELIABILITY.
- •LOW PACKAGE PROFILE.
- •PACKAGE : 1000PCS / REEL.
- RoHS COMPLIANT.

Description

The Hyper Red source color devices are made with DH InGaAIP on GaAs substrate Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches). 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.

3. Lead spacing is measured where the leads emerge from the package.

4. Specifications are subject to change without notice.

SPEC NO: DSAD0277 **APPROVED: J. Lu**

REV NO: V.3 CHECKED: Allen Liu DATE: MAR/19/2005 DRAWN: B.H.LI

Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle			
			Min.	Тур.	201/2			
KM2520SURCK09	HYPER RED (InGaAIP)	WATER CLEAR	180	650	20°			

Note:

1. θ 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

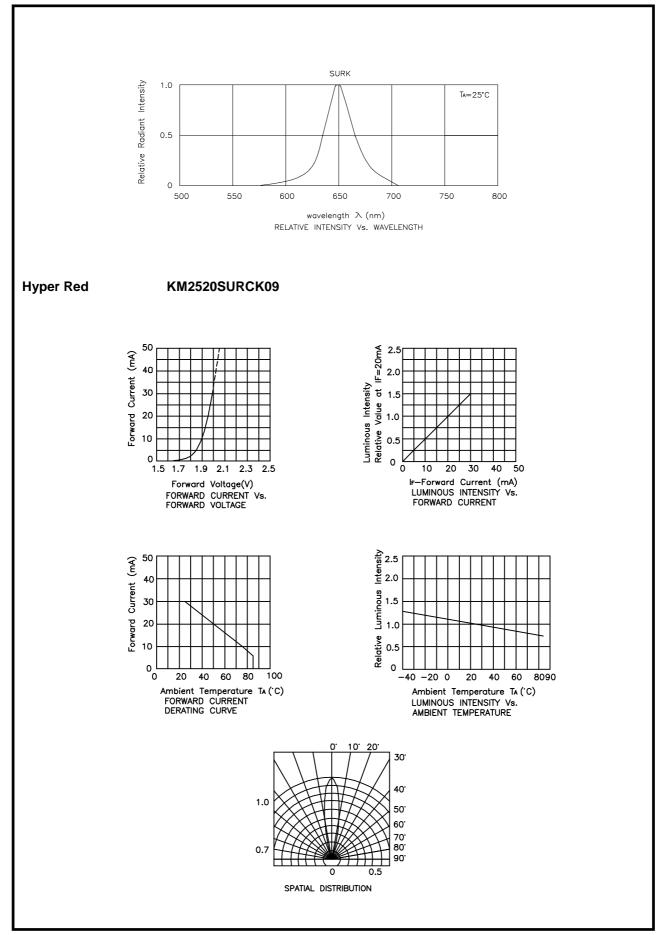
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	650		nm	IF=20mA
λD	Dominant Wavelength	Hyper Red	635		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	28		nm	IF=20mA
С	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF	Forward Voltage	Hyper Red	1.95	2.5	V	IF=20mA
lr	Reverse Current	Hyper Red		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

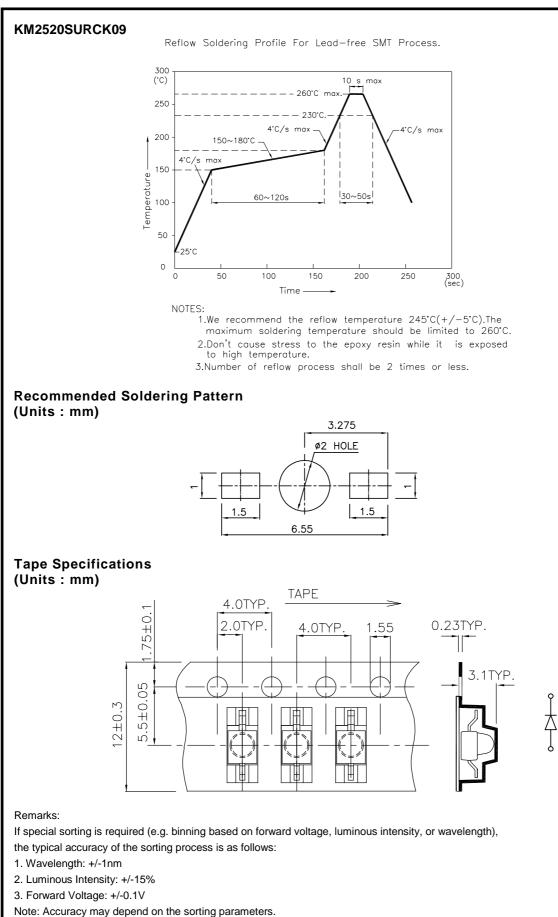
Parameter	Hyper Red	Units	
Power dissipation	170	mW	
Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	e -40°C To +85°C		

Note:

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



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