SUBMINIATURE SOLID STATE LAMP

KM2520SURC09

HYPER RED

Features Description •SUBMINIATURE PACKAGE. The Hyper Red source color devices are made •WIDE VIEWING ANGLE. with DH InGaAIP on GaAs substrate Light Emitting Diode. •Z-BEND LEAD. •LONG LIFE - SOLID STATE RELIABILITY. •LOW PACKAGE PROFILE. • PACKAGE : 1000PCS / REEL. • RoHS COMPLIANT. **Package Dimensions** 2.5(.098)±0.1 1.1(.043)±0.125 ø1.9(.075) 10--17-**—**02 0.5(.02)±0.05 0.76(.03) 2(.079)±0.1 MAX. 4.3(.169)±0.3 0.15(.006)±0.02 8(.11)±0. .055)±0. ---

R0.85

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.

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4. Specifications are subject to change without notice.

SPEC NO: DSAD0276 **APPROVED: J. Lu**

REV NO: V.3 CHECKED: Allen Liu

3.05(.12)NOM 5.8(.228)±0.3

> DATE: MAR/19/2005 DRAWN: B.H.LI

Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle			
			Min.	Тур.	2 0 1/2			
KM2520SURC09	HYPER RED (InGaAIP)	WATER CLEAR	280	1000	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

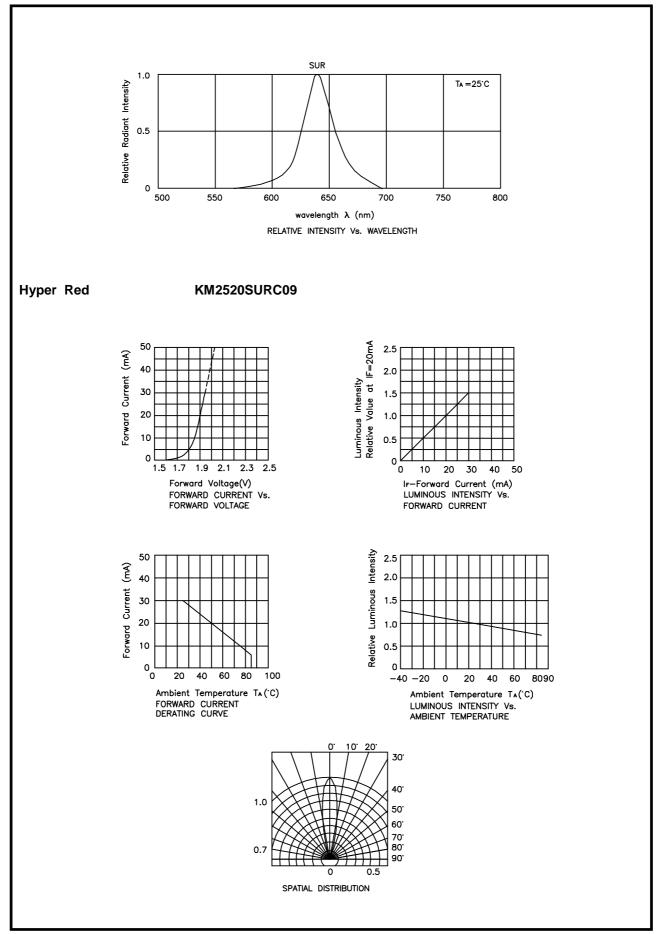
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	640		nm	IF=20mA
λD	Dominant Wavelength	Hyper Red	628		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	27		nm	IF=20mA
С	Capacitance	Hyper Red	45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Hyper Red	1.9	2.5	V	IF=20mA
IR	Reverse Current	Hyper Red		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

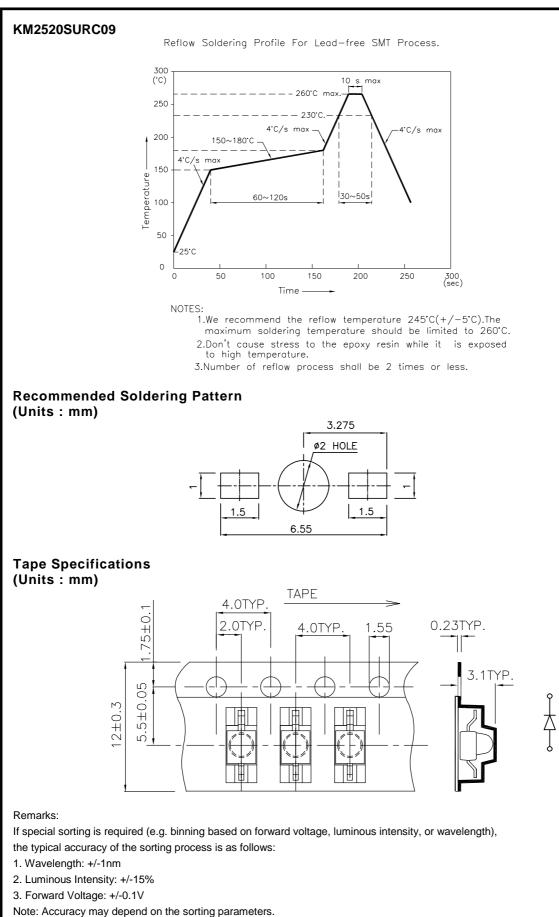
Parameter	Hyper Red	Units	
Power dissipation	170	mW	
Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		

Note:

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



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