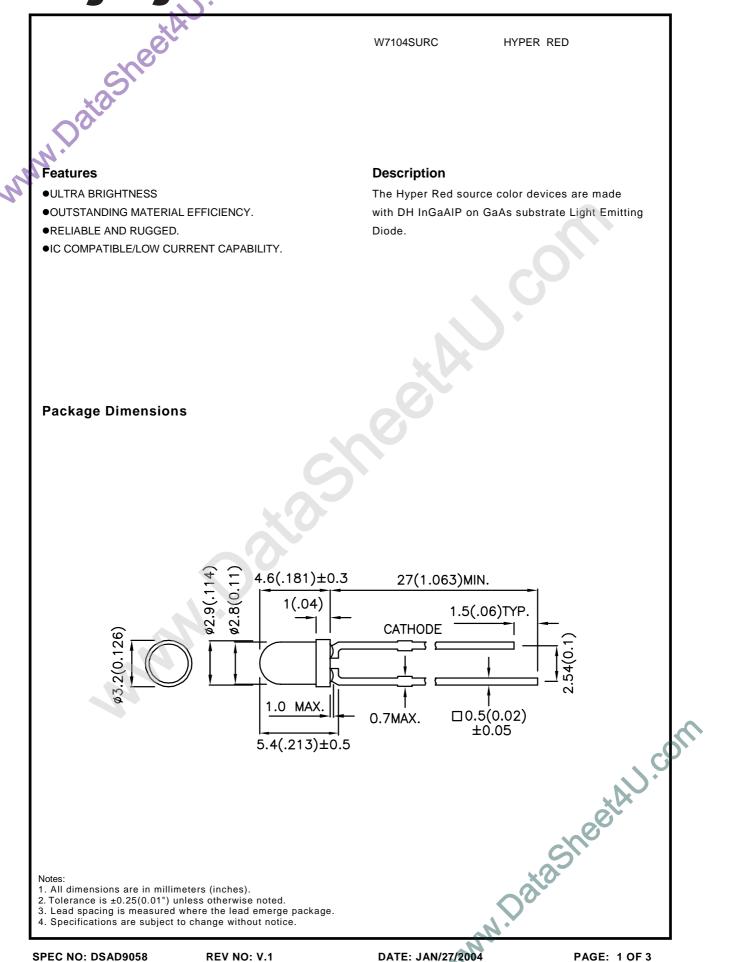


### T-1 (3mm) SOLID STATE LAMP



**APPROVED: J. Lu** 

**CHECKED:** Allen Liu

DRAWN: L.L.NIE

## Kingbright

Selection Guide							
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle		
			Min.	Тур.	201/2		
W7104SURC	HYPER RED (InGaAIP)	WATER CLEAR	480	1000	34°		

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	Dominate 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

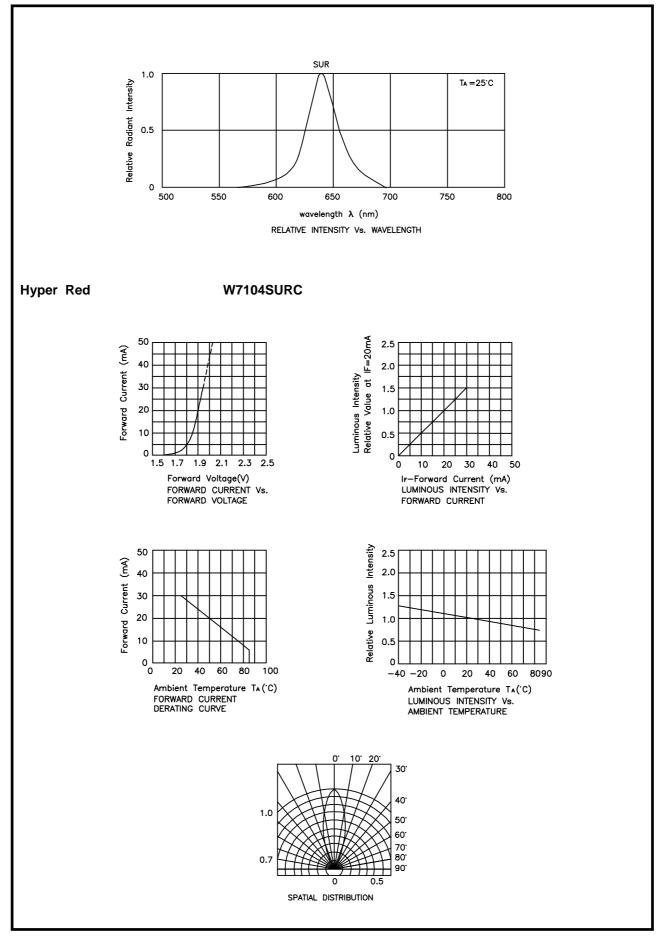
Parameter	Hyper Red	Units	
Power dissipation	170	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	185	mA	
Reverse Voltage	5	V	
Operating / Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 5 Seconds		

Notes:

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

2. 2mm below package base.

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REV NO: V.1 CHECKED: Allen Liu DATE: JAN/27/2004 DRAWN: L.L.NIE