Kingbright

T-1 3/4 (5mm) SOLID STATE LAMP

L-7113LID HIGH EFFICIENCY RED

Description **Features** •LOW POWER CONSUMPTION. The High Efficiency Red source color devices are •POPULAR T-1 3/4 DIAMETER PACKAGE. made with Gallium Arsenide Phosphide on Gallium •GENERAL PURPOSE LEADS. Phosphide Orange Light Emitting Diode. •RELIABLE AND RUGGED. •LONG LIFE - SOLID STATE RELIABILITY. •AVAILABLE ON TAPE AND REEL. ●LOW CURRENT IF=2mA OPERATING. •RoHS COMPLIANT. **Package Dimensions** 27(1.063)MIN. 8.6(.339) ø5.9(.232) 1(.04) 1.5(.06)TYP.

5(.197

Notes:

All dimensions are in millimeters (inches).
Tolerance is ±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.

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CATHODE

0.7MAX.

1.0 MAX.

54(

 $\Box 0.5(0.02)$

±0.05

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Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) @ 2mA		Viewing Angle				
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Min.	Тур.	201/2				
L-7113LID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	0.7	5	30°				

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 T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red	625		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF	Forward Voltage	High Efficiency Red	2.0	2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Units		
Power dissipation	105	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	160	mA		
Reverse Voltage	5	V		
Operating / Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

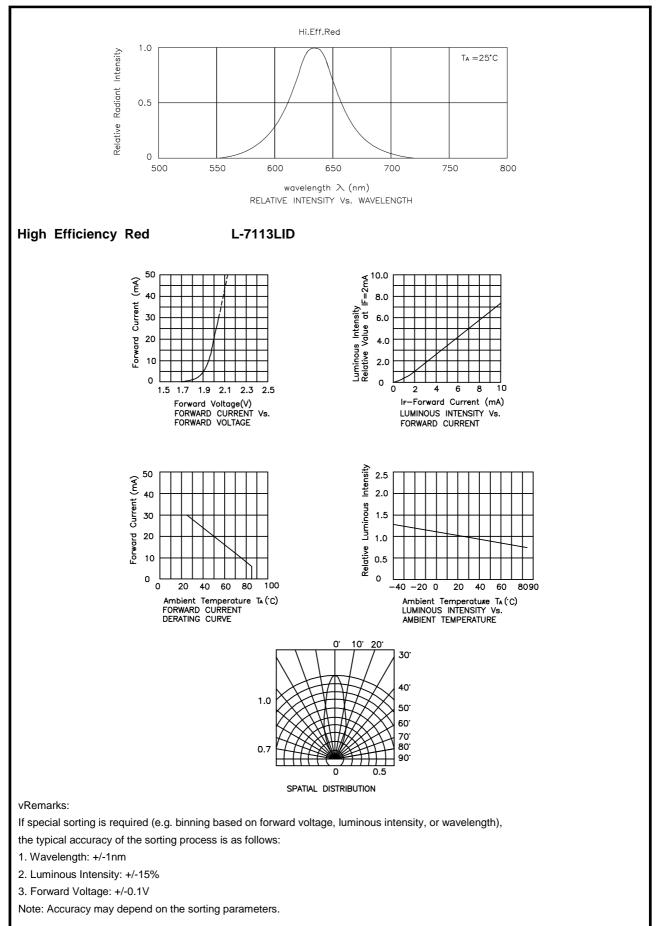
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.

3. 5mm below package base.

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