

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 10mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
WP7104ALUP/2ID-0L	High Efficiency Red (GaAsP/GaP)	RED DIFFUSED	8	20	40°

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=10mA
λD [1]	Dominant Wavelength	High Efficiency Red	625		nm	IF=10mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=10mA
C	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	High Efficiency Red	1.9	2.5	V	IF=10mA
IR	Reverse Current	High Efficiency Red		10	uA	VR=5V

Notes:

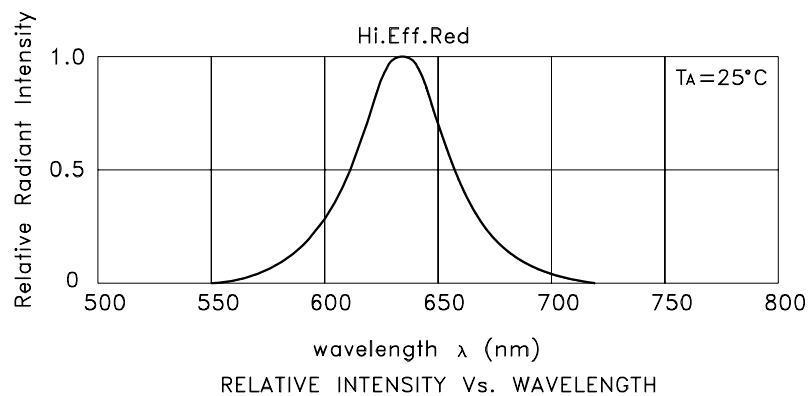
- 1.Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current [1]	160	mA
Reverse Voltage	5	V
Operating Temperature	-40°C To +85°C	
Storage Temperature	-40°C To +85°C	

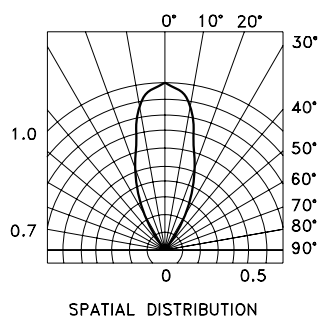
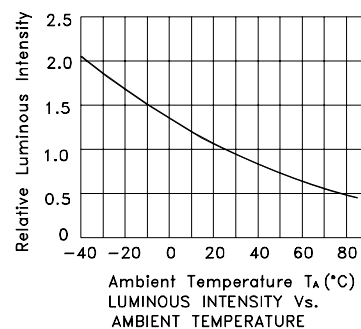
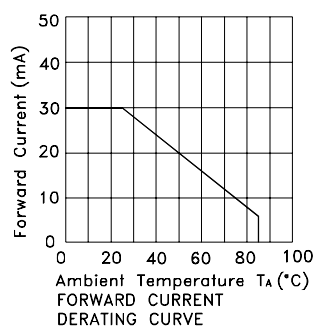
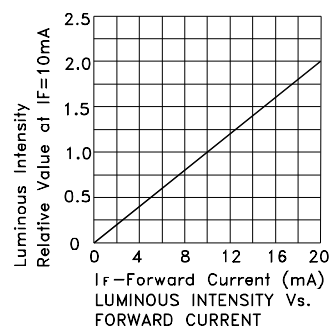
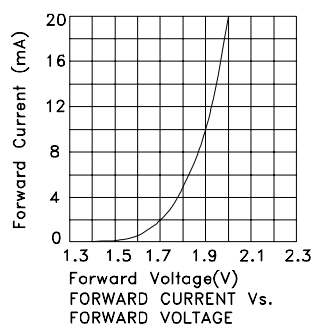
Note:

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



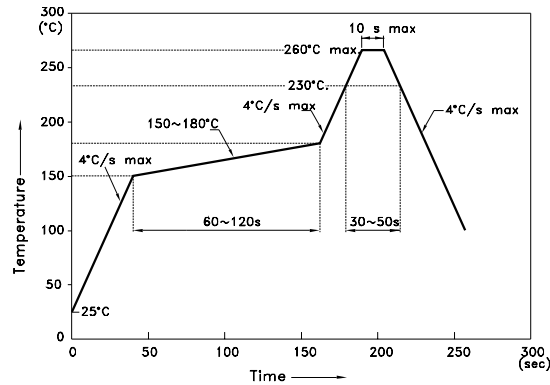
High Efficiency Red

WP7104ALUP/2ID-0L



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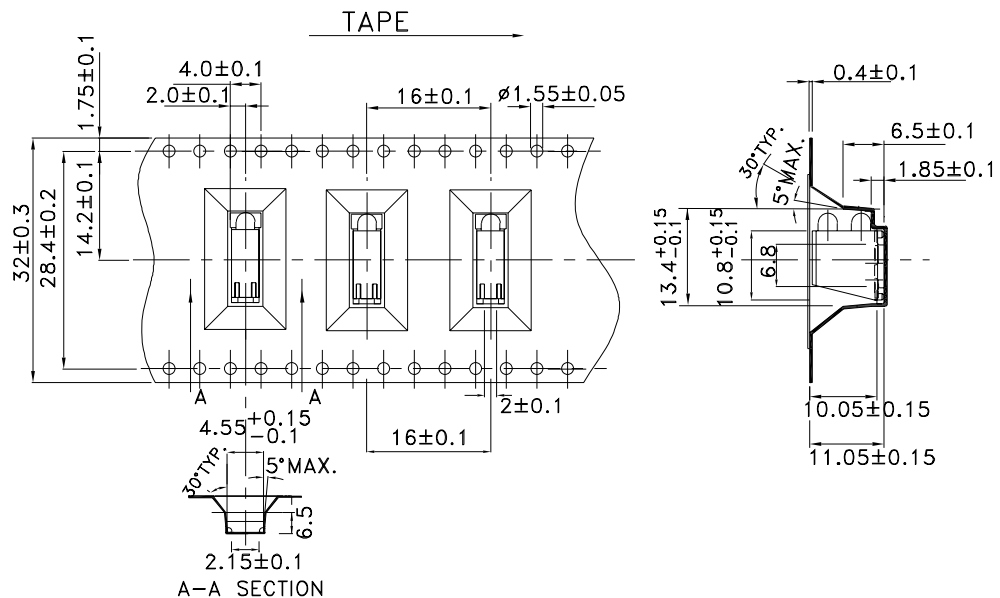
Reflow Soldering Profile For Lead-free SMT Process.



NOTES:

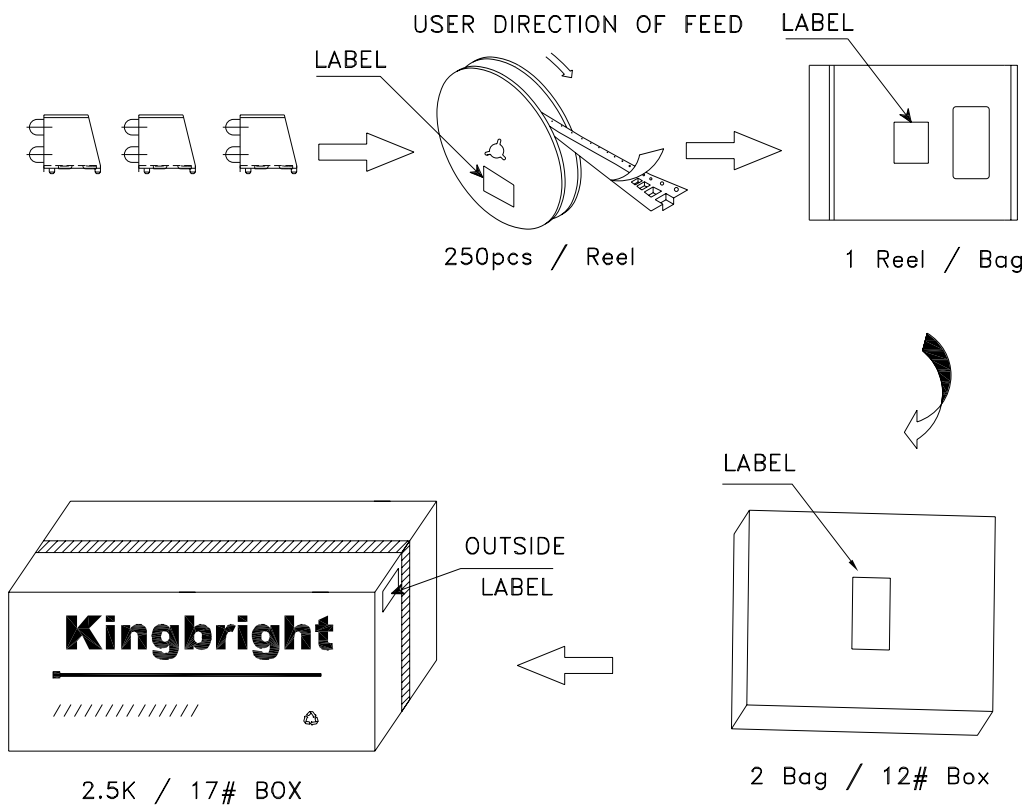
1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

Tape Specifications (Units : mm)



PACKING & LABEL SPECIFICATIONS

WP7104ALUP/2ID-0L



Kingbright	
Q.C.	QC XX XX XX PASSED
P/NO: WP7104ALUP/xxx-0L	
QUANTITY : 250 pcs	
S/N : XX	CODE: XX
LOT NO :  XXXXXXXXXXXX	
MADE IN CHINA	RoHS Compliant