

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	2θ1/2
KA-3528SURCK	HYPER RED (InGaAlP)	WATER CLEAR	70	200	120°

Note:

1. θ1/2 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

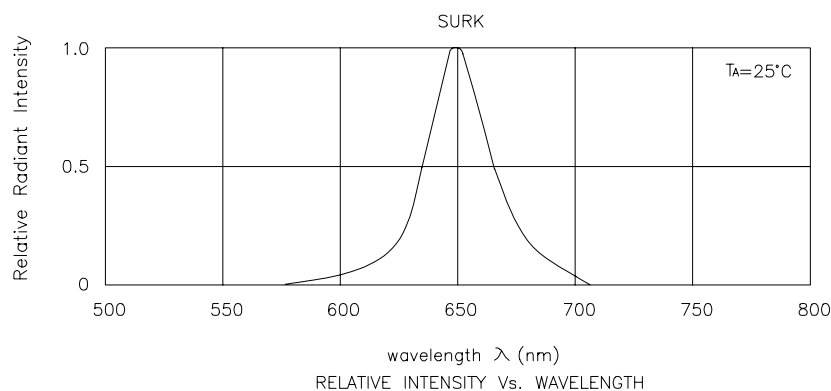
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Hyper Red	650		nm	I _F = 20mA
λ _D	Dominate Wavelength	Hyper Red	635		nm	I _F = 20mA
Δλ _{1/2}	Spectral Line Half-width	Hyper Red	28		nm	I _F = 20mA
C	Capacitance	Hyper Red	35		pF	V _F = 0V; f = 1MHz
V _F	Forward Voltage	Hyper Red	1.95	2.5	V	I _F = 20mA
I _R	Reverse Current	Hyper Red		10	μA	V _R = 5V

Absolute Maximum Ratings at T_A=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	

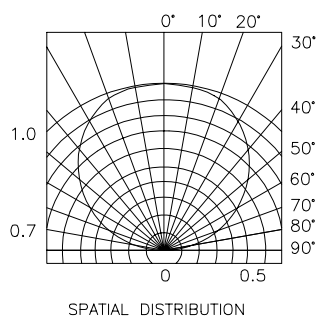
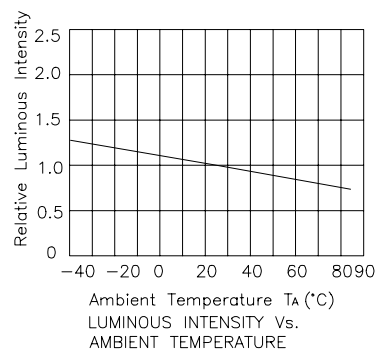
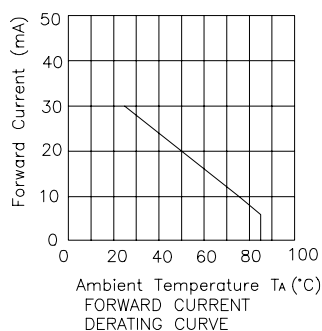
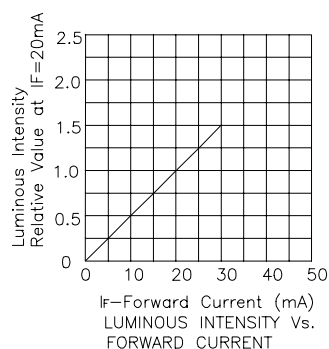
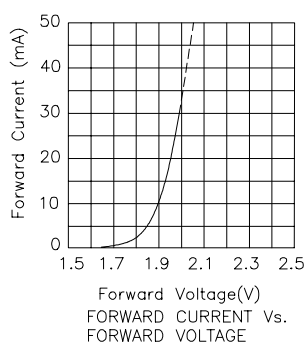
Note:

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



Hyper Red

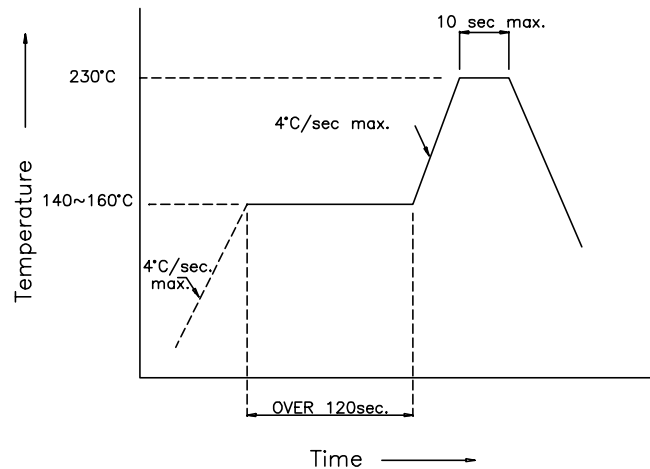
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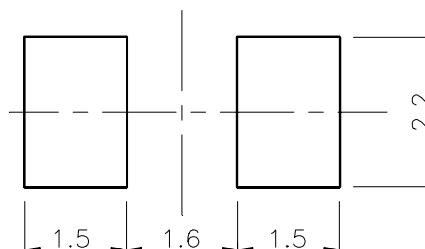
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SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)

