

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
SA50-31SURKWA	Hyper Red (AlGaInP)	WHITE DIFFUSED	44000	368000	Common Anode, Rt. Hand Decimal.

Note:

1. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Hyper Red	650		nm	IF=20mA
λ_D [1]	Dominant Wavelength	Hyper Red	630		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Hyper Red	28		nm	IF=20mA
C	Capacitance	Hyper Red	35		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage Per Segment or (DP and Comma)	Hyper Red	19.5 (5.85)	25 (7.5)	V	IF=20mA
IR	Reverse Current Per Segment or (DP and Comma)	Hyper Red		20 (10)	uA	VR=50V (VR=15V)

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

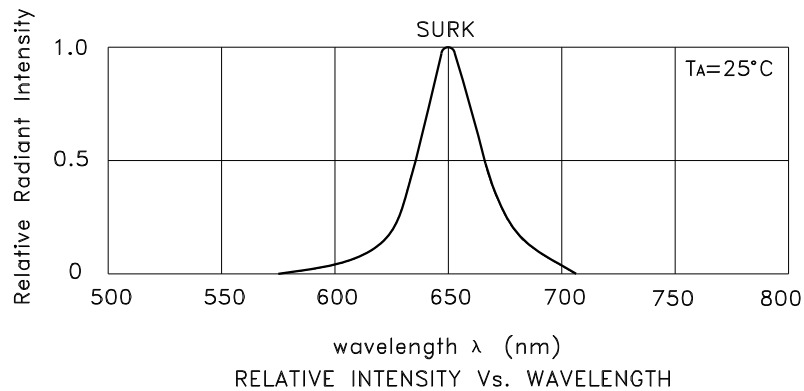
Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Units
Power dissipation Per Segment or (DP and Comma)	1500 (225)	mW
DC Forward Current Per Segment or (DP and Comma)	60 (30)	mA
Peak Forward Current [1] Per Segment or (DP and Comma)	370 (185)	mA
Reverse Voltage Per Segment or (DP and Comma)	50 (15)	V
Operating / Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[2]	260°C For 3-5 Seconds	

Notes:

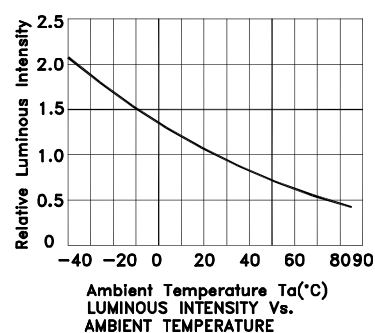
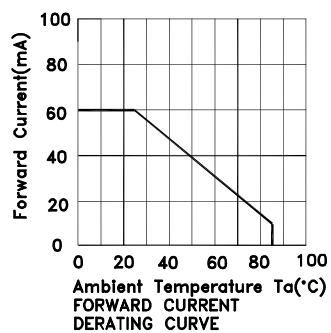
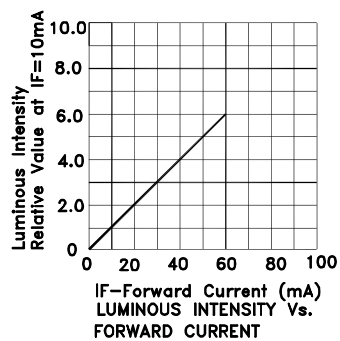
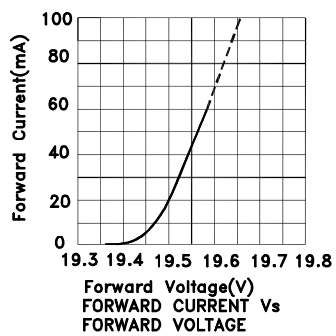
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

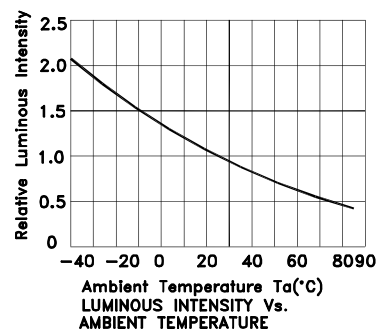
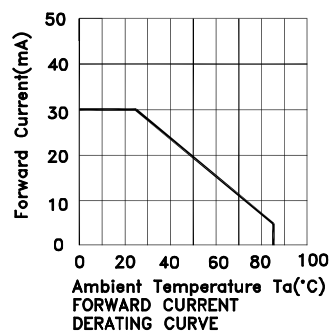
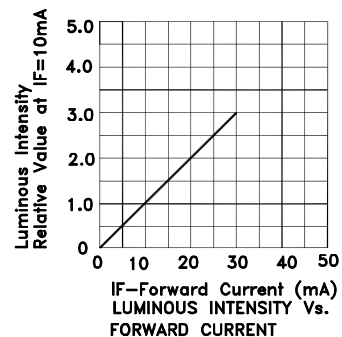
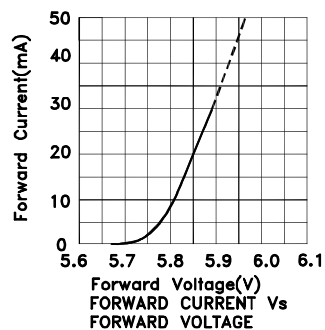
2. 2mm below package base.



Hyper Red

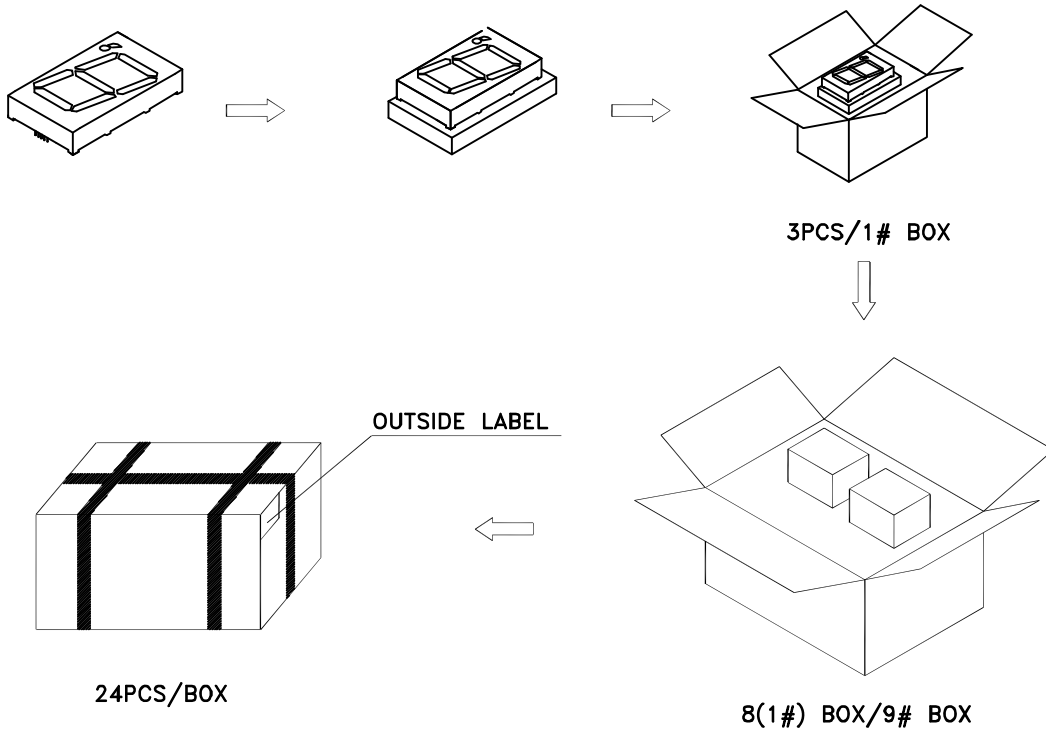
SA50-31SURKWA





PACKING & LABEL SPECIFICATIONS

SA50-31SURKWA



Inside Label Paste On The 1#BOX

Kingbright	TYPE: Sx50-31xxx		Date
	QTY:3 PCS CODE: xx		Number OF FQC
		RoHS Compliant	
XXXXXXXX-XXXX		LOT NO.	

Outside Label Paste On The Box

XXXXXX			
Sx50-31xxx		Bin Code	Number OF QA
24 PCS	XX		Date
			RoHS Compliant