



## Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
PSA23-11SURKWA	Hyper Red (AlGaInP)	White Diffused	31000	73000	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
$\lambda$ peak	Peak Wavelength		Hyper Red	650		nm	IF=20mA
$\lambda$ 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	A1,A2,D1,D2,P,K	Hyper Red	3.9	5.0	V	IF=20mA
		B,C,E,F,G,H,J,L,M,N					
		DP		1.95	2.5		
IR	Reverse Current	A1,A2,D1,D2,P,K	Hyper Red		10	uA	VR = 10V VR = 10V VR = 5V
		B,C,E,F,G,H,J,L,M,N			20		
		DP			10		

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

Parameter		Super Bright Orange	Units
Power dissipation	A1,A2,D1,D2,P,K	150	mW
	B,C,E,F,G,H,J,L,M,N(DP)	300(75)	
DC Forward Current	A1,A2,D1,D2,P,K	30	mA
	B,C,E,F,G,H,J,L,M,N(DP)	60(30)	
Peak Forward Current [1]	A1,A2,D1,D2,P,K	185	mA
	B,C,E,F,G,H,J,L,M,N(DP)	370(185)	
Reverse Voltage	A1,A2,D1,D2,P,K	10	V
	B,C,E,F,G,H,J,L,M,N(DP)	10(5)	
Operating / Storage Temperature		-40°C To +85°C	
Lead Solder Temperature [2]		260°C For 3 Seconds	

Notes:

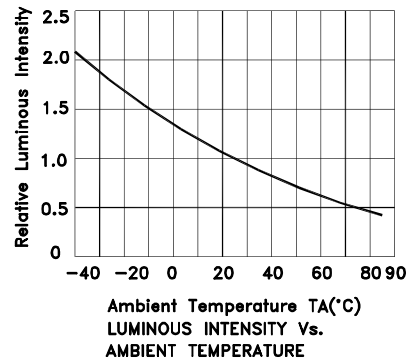
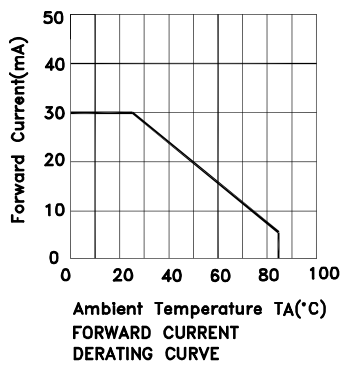
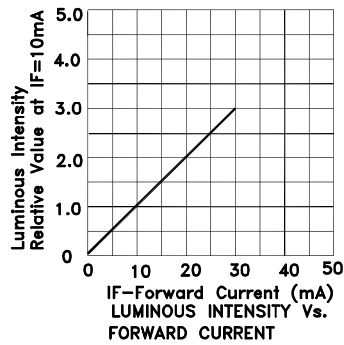
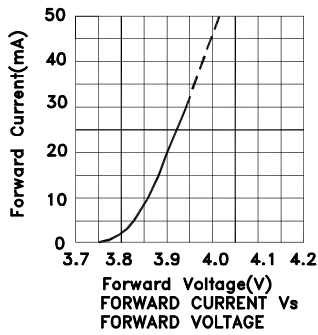
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

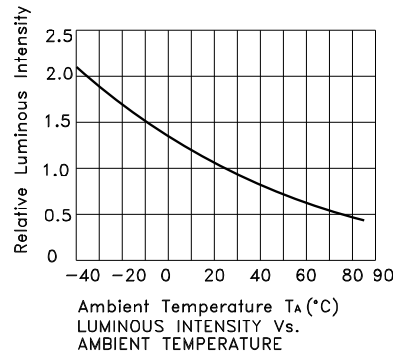
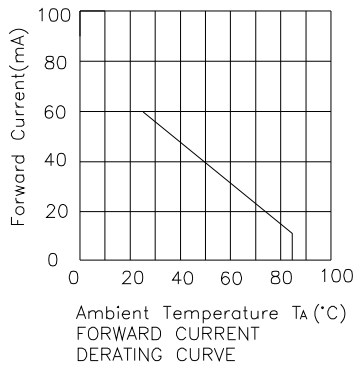
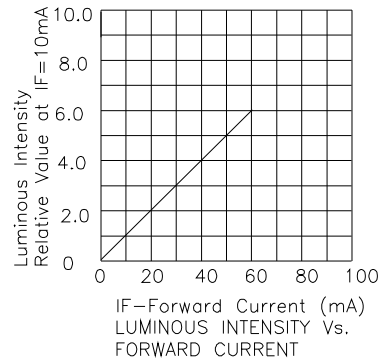
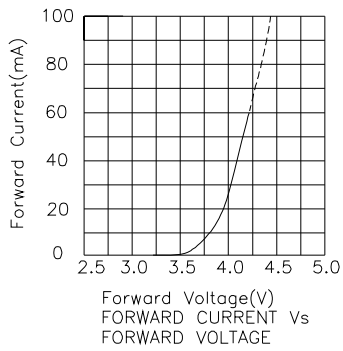


## Hyper Red

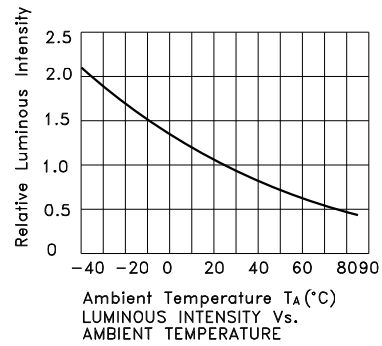
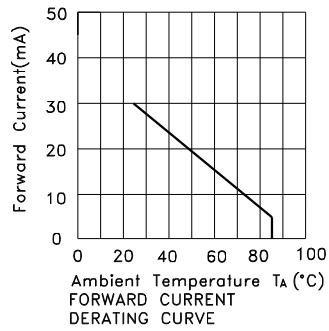
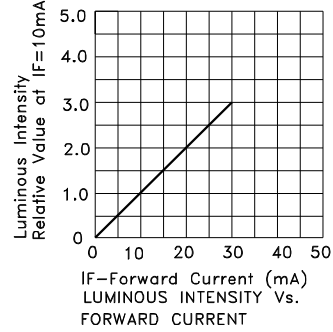
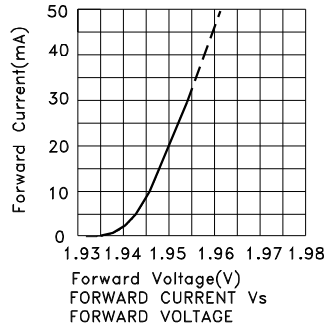
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Note: the curves are on the segment a1,a2,d1,d2,p,k.



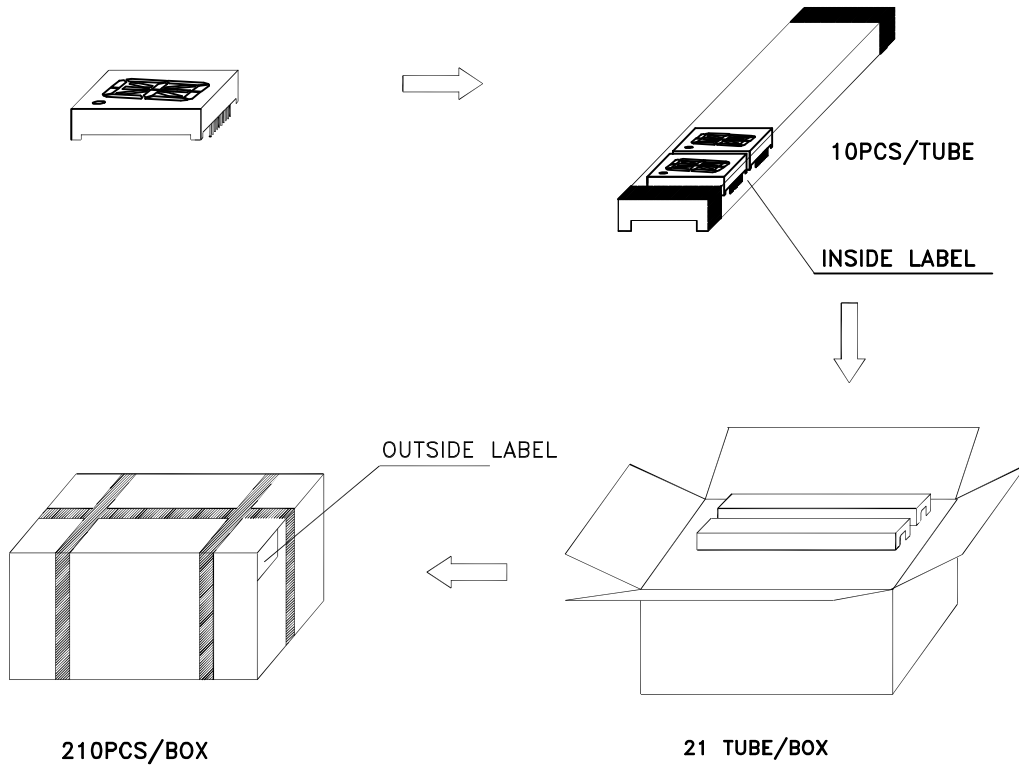
Note:the curves are on the segment b,c,e,f,g,h,j,l,m,n.



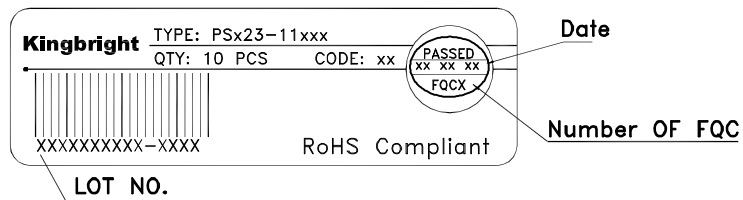
Note:the curves are on the DP.

## PACKING & LABEL SPECIFICATIONS

## PSA23-11SURKWA



### Inside Label On IC-tube



### Outside Label On Box

