

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
KPEFA-3029SEEVGEPBGC	HYPER ORANGE (InGaAIP)	WATER CLEAR	110	280	120°
	GREEN (InGaN)		70	200	
	BLUE (InGaN)		70	130	

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 TA=25°C

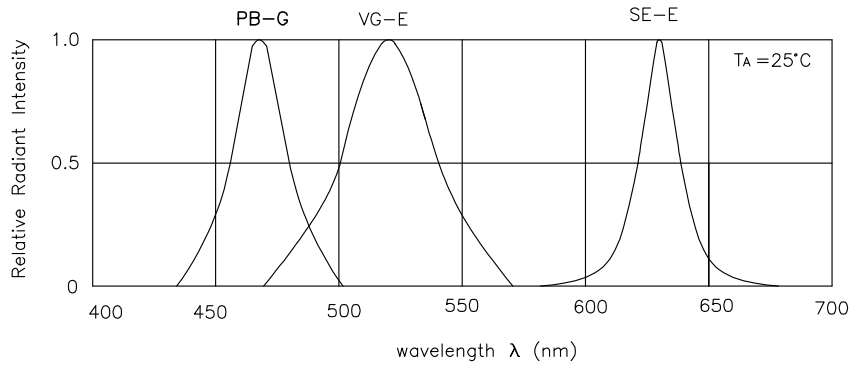
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Hyper Orange Green Blue	630 518 468		nm	IF=20mA
λ_D	Dominant Wavelength	Hyper Orange Green Blue	621 525 470		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Hyper Orange Green Blue	20 36 26		nm	IF=20mA
C	Capacitance	Hyper Orange Green Blue	25 50 110		pF	VF=0V;f=1MHz
VF	Forward Voltage	Hyper Orange Green Blue	2.0 3.5 3.6	2.5 4.5 4.3	V	IF=20mA
IR	Reverse Current	All		10	uA	VR= 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Orange	Green	Blue	Units
Power dissipation	150	120	102	mW
DC Forward Current	30	30	30	mA
Peak Forward Current [1]	195	150	150	mA
Reverse Voltage	5			V
Operating/Storage Temperature	-40°C TO +85°C			

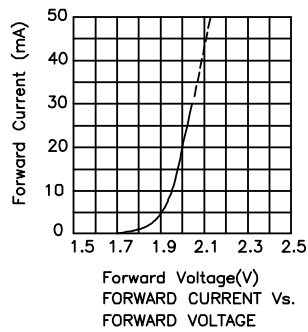
Note:

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

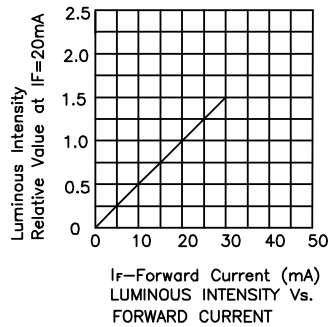


RELATIVE INTENSITY Vs. WAVELENGTH

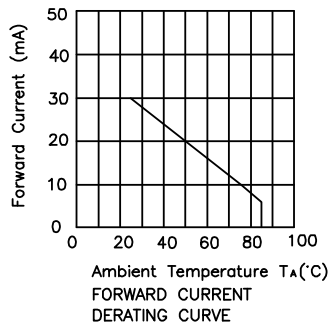
KPEFA-3029SEEVGEPBGC Hyper Orange



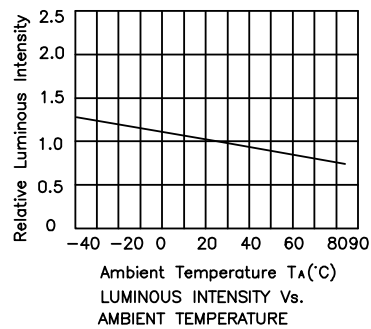
FORWARD CURRENT Vs. FORWARD VOLTAGE



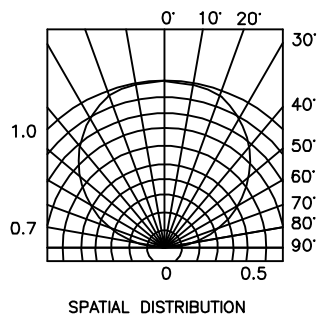
I_F —Forward Current (mA)
LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE

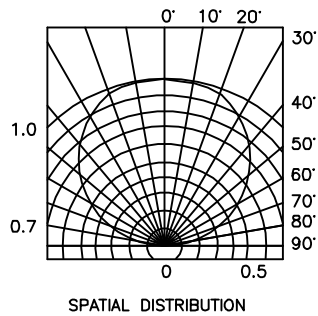
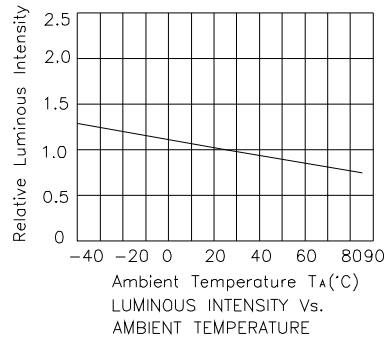
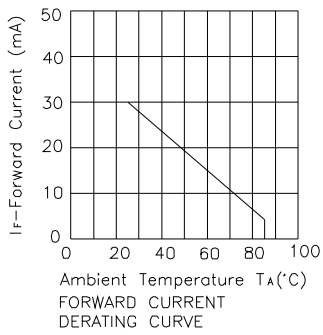
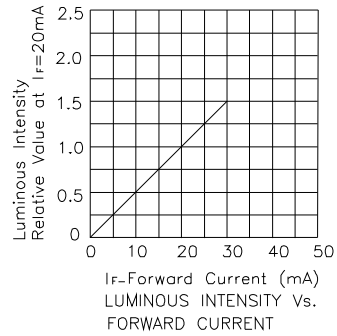
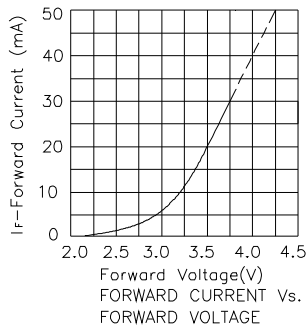


LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

Green



Kingbright

Blue

