

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) [1] @ 10mA		Description
			Min.	Typ.	
SBA23-11EGWA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	4700	18000	Common Anode,Rt. Hand Decimal.
	GREEN (GaP)		4700	24000	

Note:

- Luminous Intensity/ Luminous Flux: +/-15%

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green	627 565		nm	I _F =20mA
λ_D [1]	Dominant Wavelength	High Efficiency Red Green	625 568		nm	I _F =20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	I _F =20mA
C	Capacitance	High Efficiency Red Green	15 15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage Per Segment or (DP)	High Efficiency Red Green	8(4) 8.8(4.4)	10(5) 10(5)	V	I _F =20mA
I _R	Reverse Current Per Segment or (DP)	High Efficiency Red Green		10 10	uA	V _R = 20(10)V

Notes:

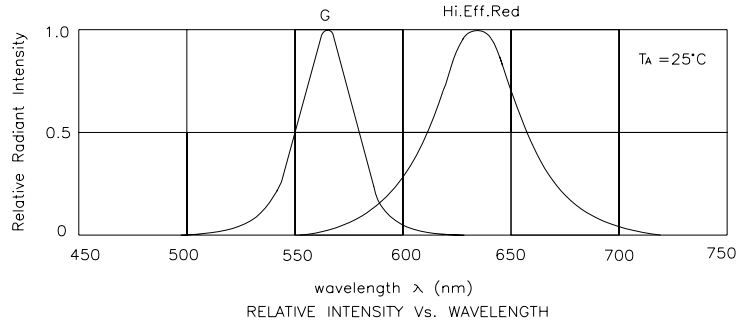
- Wavelength: +/-1nm
- Forward Voltage: +/-0.1V

Absolute Maximum Ratings at TA=25°C

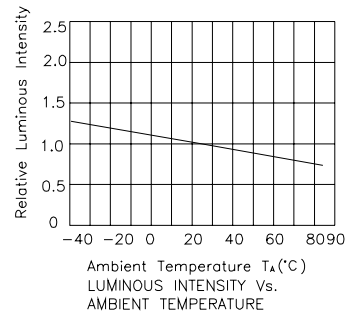
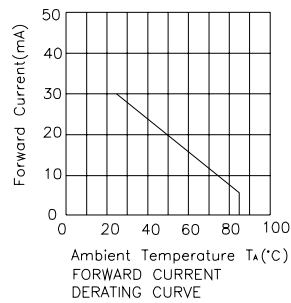
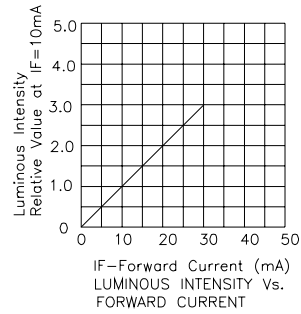
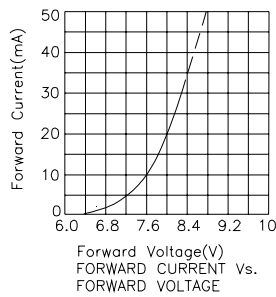
Parameter	High Efficiency Red	Green	Units
Power dissipation Per Segment or (DP)	300(150)	250(125)	mW
DC Forward Current Per Segment or (DP)	30	25	mA
Peak Forward Current [1] Per Segment or (DP)	160	140	mA
Reverse Voltage Per Segment or (DP)	20(10)		V
Operating/storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 5 Seconds		

Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.

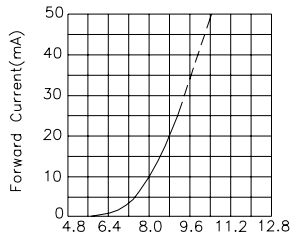


SBA23-11EGWA
High Efficiency Red

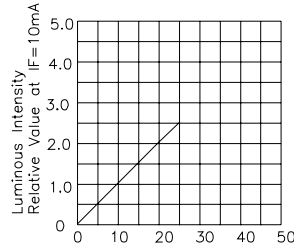


Kingbright

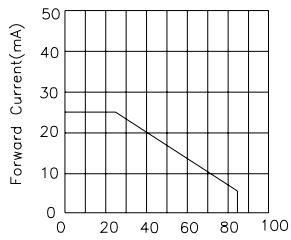
Green



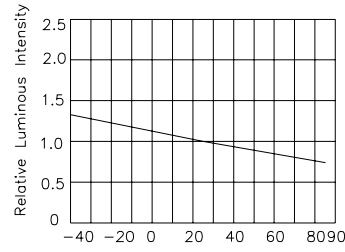
Forward Voltage(V)
FORWARD CURRENT Vs.
FORWARD VOLTAGE



IF-Forward Current (mA)
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



Ambient Temperature T_A (°C)
FORWARD CURRENT
DERATING CURVE



Ambient Temperature T_A (°C)
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

PACKING & LABEL SPECIFICATIONS

SBA23-11EGWA

