

Selection Guide

Part No.	Dice	Lens Type	Iv (ucd) @ 10mA		Description
			Min.	Typ.	
SBC18-11EGWA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	4700	18000	Common Cathode, Rt. Hand Decimal
	GREEN (GaP)		8000	26000	

Electrical / Optical Characteristics at TA=25°C

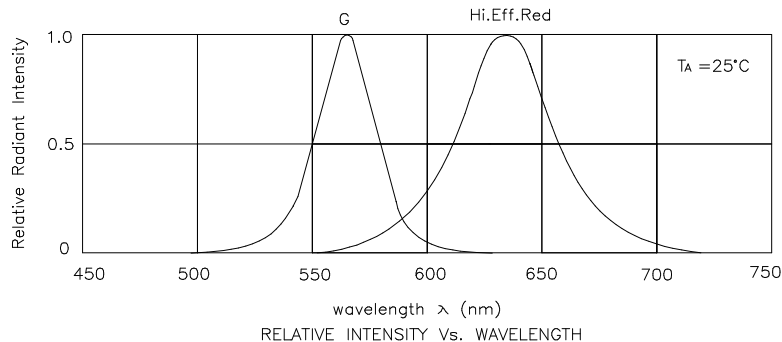
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green	627 565		nm	IF=20mA
λ_D	Dominant Wavelength	High Efficiency Red Green	625 568		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	IF=20mA
C	Capacitance	High Efficiency Red Green	15 15		pF	VF=0V;f=1MHz
VF	Forward Voltage Per Segment or (DP)	High Efficiency Red Green	6.0(2.0) 6.6(2.2)	7.5(2.5) 7.5(2.5)	V	IF=20mA
IR	Reverse Current Per Segment or (DP)	High Efficiency Red Green		10 10	uA	VR=15V(5V)

Absolute Maximum Ratings at TA=25°C

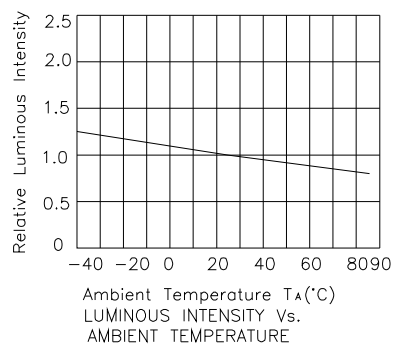
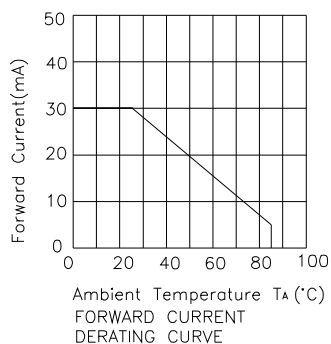
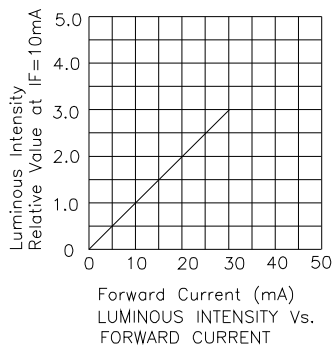
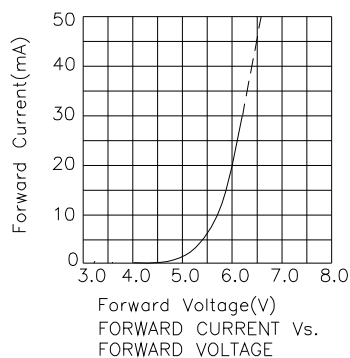
Parameter	High Efficiency Red	Green	Units
Power dissipation Per Segment or (DP)	225 (105)	187.5 (105)	mW
DC Forward Current Per Segment or (DP)	30	25	mA
Peak Forward Current [1] Per Segment or (DP)	160	140	mA
Reverse Voltage Per Segment or (DP)	15(5)		V
Operating/storage Temperature	-40°C To +85°C		
Lead Solder Temperature [2]	260°C For 5 Seconds		

Notes:

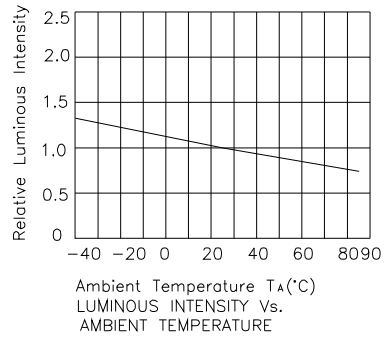
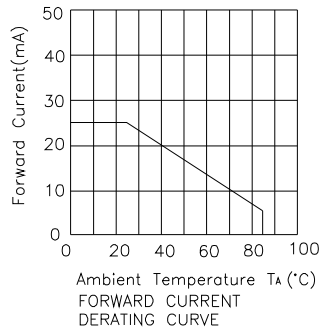
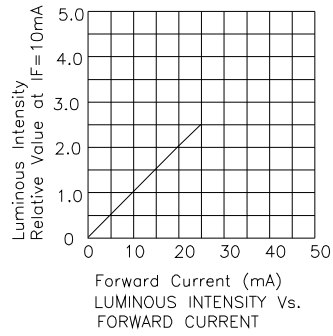
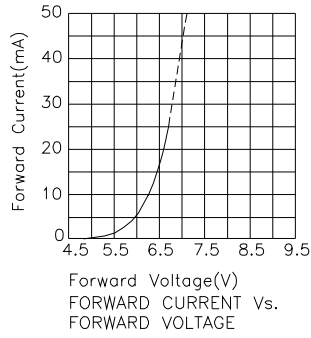
- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.



SBC18-11EGWA High Efficiency Red

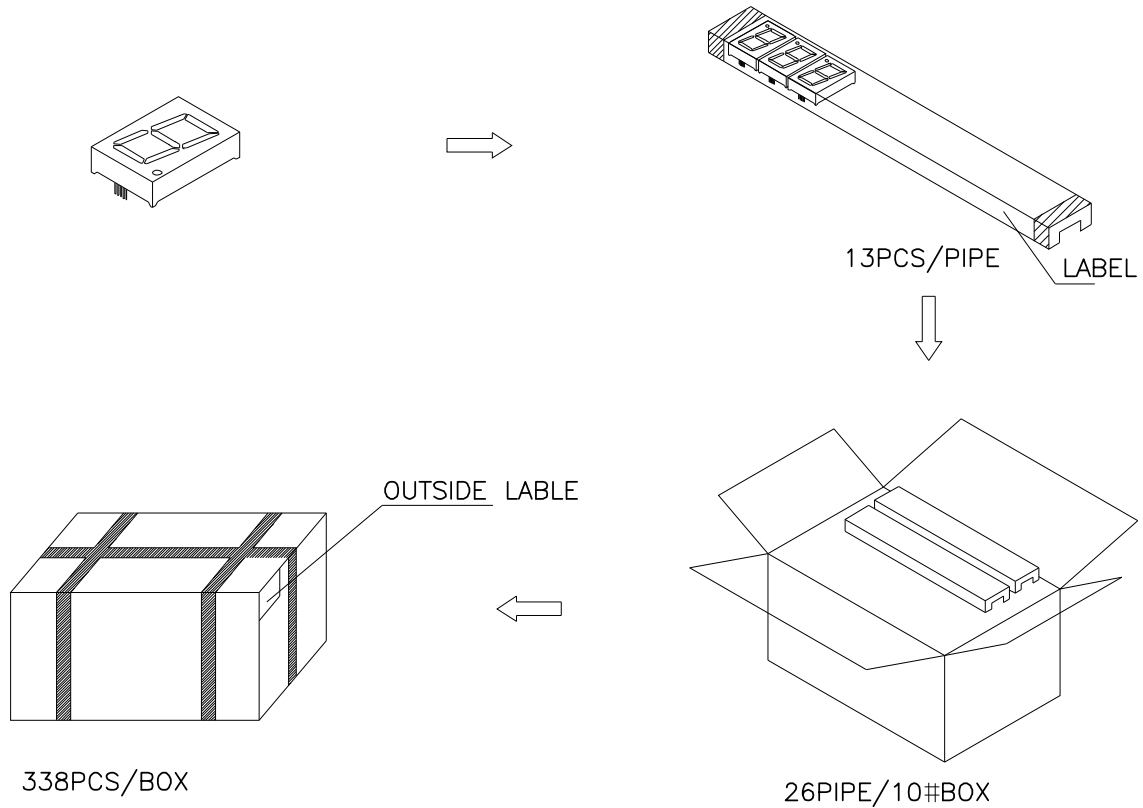


Green

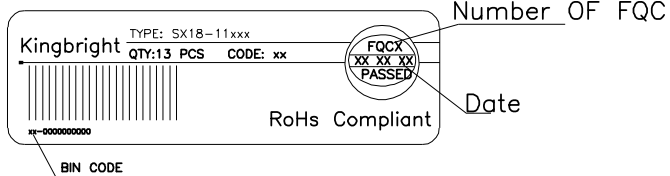


PACKING & LABEL SPECIFICATIONS

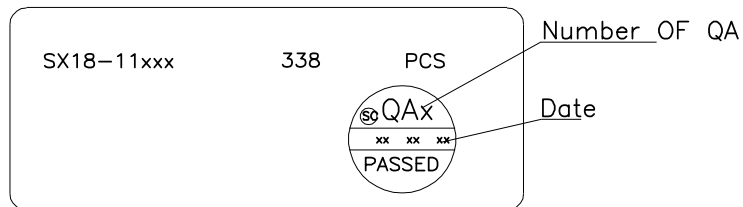
SBC18-11EGWA



Inside LABEL Paste On The IC-pipe



Outside LABEL Paste On The Box



Remarks:

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity/ luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous intensity/ luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.