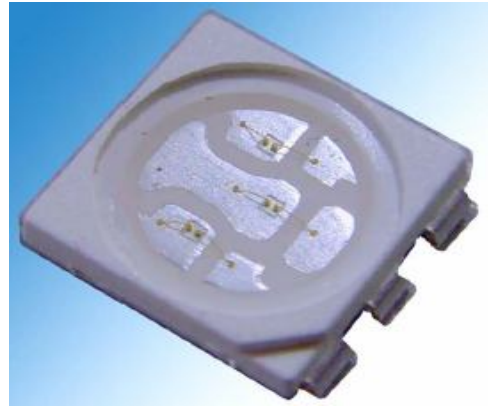


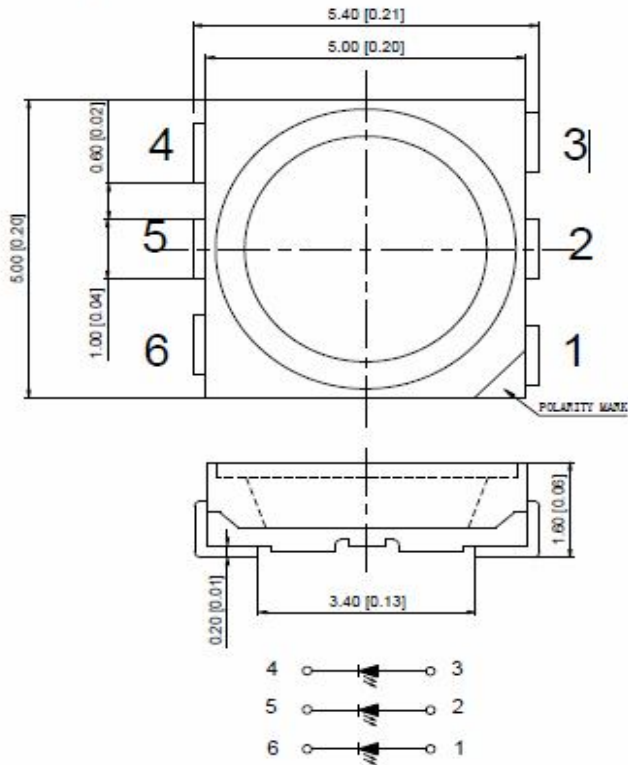
SB-SMD-5050-green



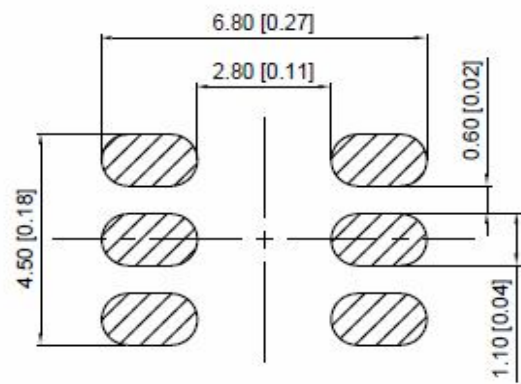
ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



Package Dimensions



Recommended Soldering Pattern



Notes:

1. All dimension units are in millimeters.
2. All dimension tolerance is ± 0.15 mm unless otherwise noted.

Dice	Lens Type	Iv (mcd) @20mA*3			Viewing Angle
		Min	Typ	MAx	2 θ 1/2
Green <GaP>	Water Clear	2000	/	2500	120°

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	Min.	Typ	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Green	/		/	nm	IF=20mA*3
λ_D	Dominate Wavelength	Green	515	525		nm	IF=20mA*3
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Green	/	38	/	nm	IF=20mA*3
C	Capacitance	Green	/	45	/	PF	VF=0V;f=1MHz
VF	Forward	Green	3.0		3.3	V	IF=20mA*3
IR	Reverse Current	Green	/	/	10	uA	VR=5V

Absolute MAXimum Ratings at TA=25°C

Parameter	Green	Units
Power dissipation	95	mW
DC Forward Current	30	mA
Peak Forward Current (1)	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To + 85°C	

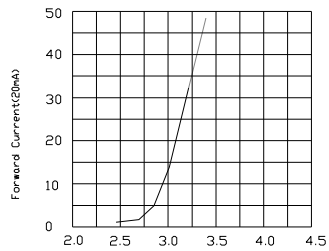
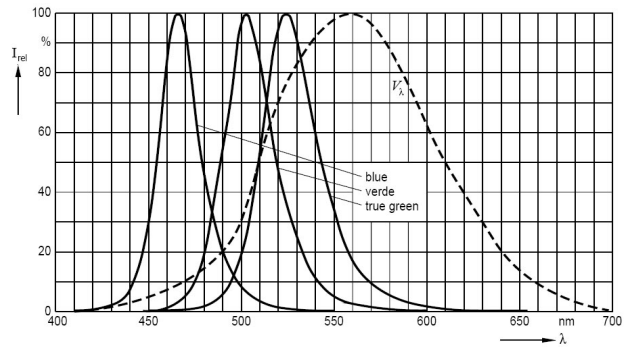
Note:

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

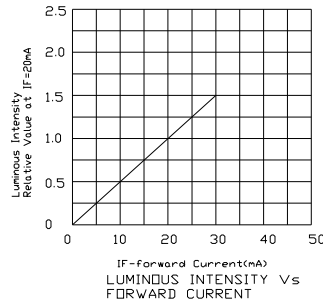
Relative Spectral Emission

$V(\lambda) =$ Standard eye response curve

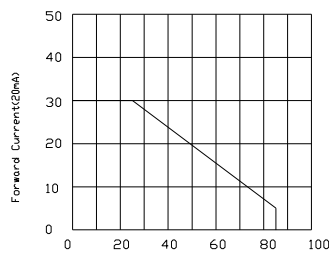
$\Phi_{rel} = f(\lambda)$; $T_A = 25^\circ\text{C}$; $I_F = 20\text{mA} \times 3$



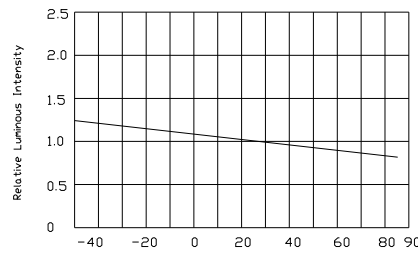
FORWARD CURRENT Vs FORWARD VOLTAGE
X B P B Y X B P B N O W B B P J



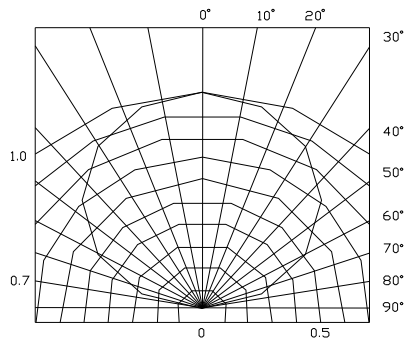
LUMINOUS INTENSITY Vs FORWARD CURRENT
B B Y X B P B N O W B B P J



FORWARD CURRENT DERATING CURVE
X B P B Y B P B B P J



LUMINOUS INTENSITY Vs AMBIENT TEMPERATURE
B B Y X B P B N O W B B P J



SPATIAL DISTRIBUTION
B B Y X B P B