

PRODUCT SPECIFICATION

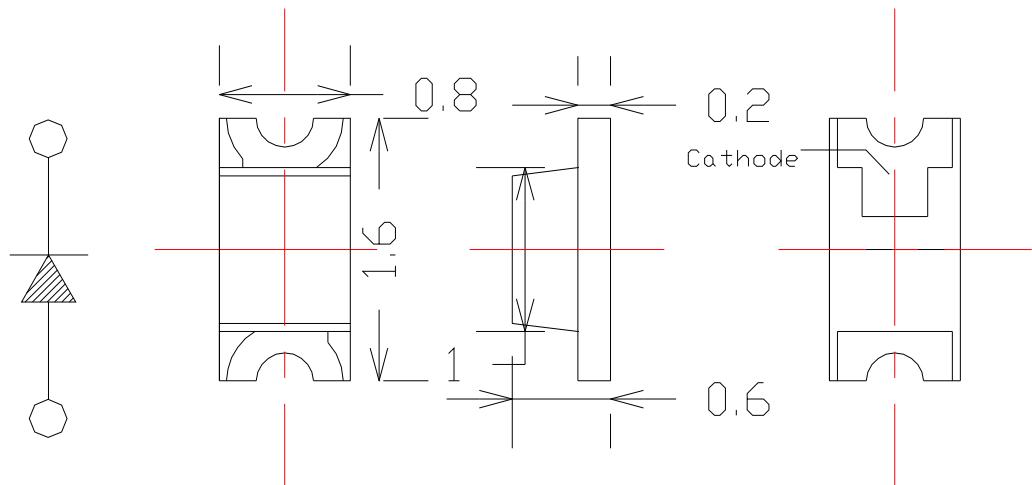
Part No: **0603blue**

Colour: **blue**

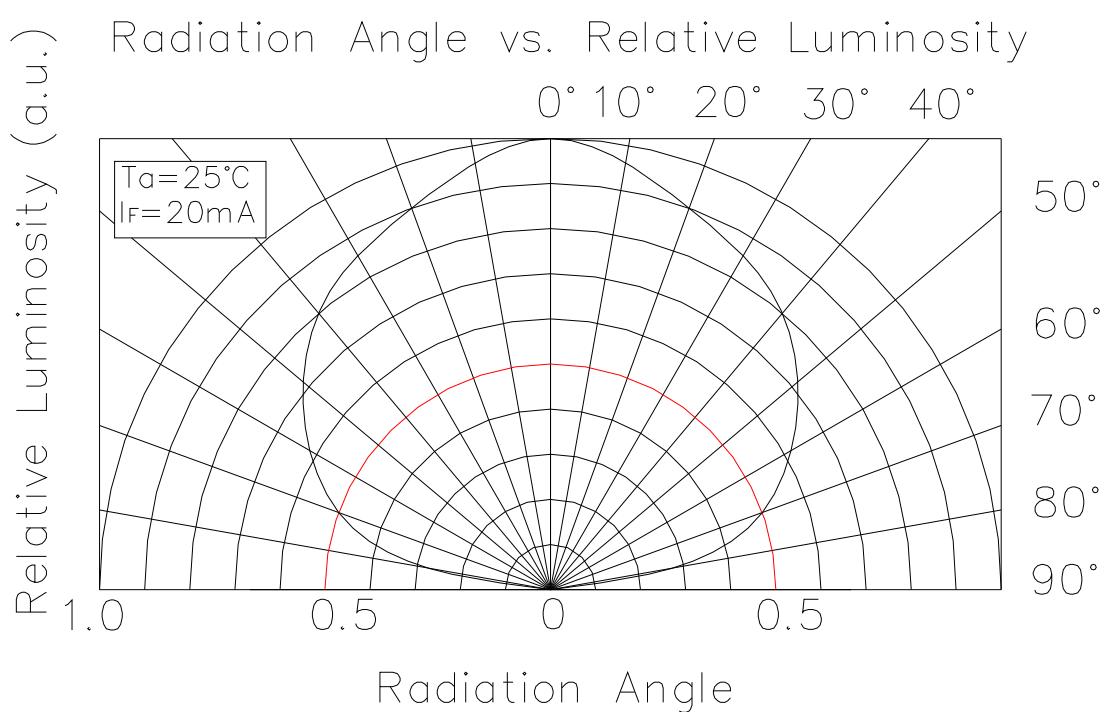
Customer Approved	Checked	Prepared

SMD-LED 0603 blue

■ Outline Dimension:



■ View Angle:



SMD-LED 0603 blue

■ Absolute Maximum Ratings (Ta = 25°C)

Items	Symbol	Absolute maximum Rating	Unit
Power Dissipation	P _D	120	mW
Forward Current(DC)	I _F	25	mA
Peak Forward Current	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Operation Temperature	Topr	- 20 ~ + 75	°C
Storage Temperature	Tstg	- 30 ~ + 80	°C
Lead Soldering Temperature	Tsol	Max.260°C for 5 sec Max. (3min from the base of the epoxy bulb)	

Pulse width≤0.1msec duty≤1/10

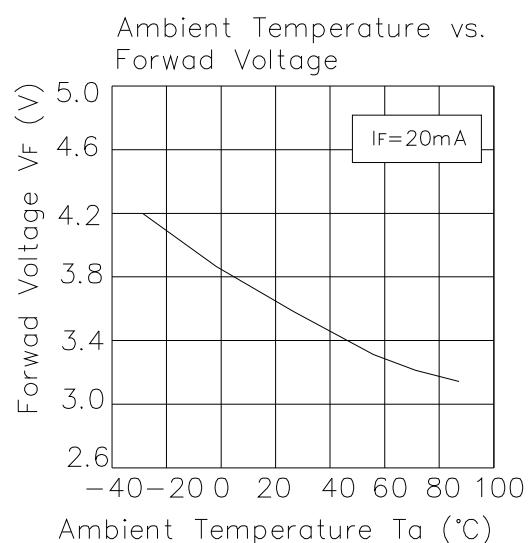
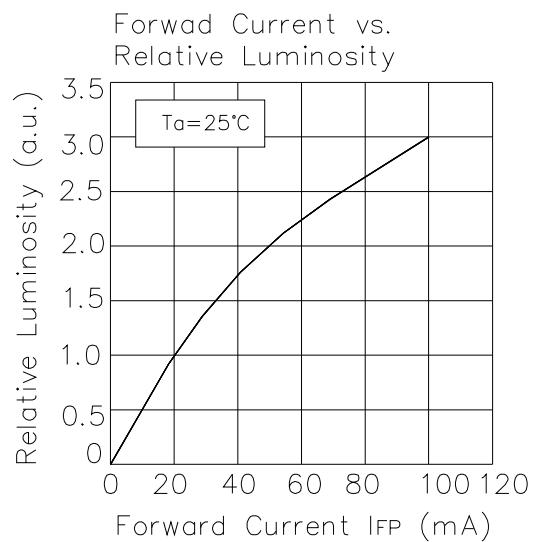
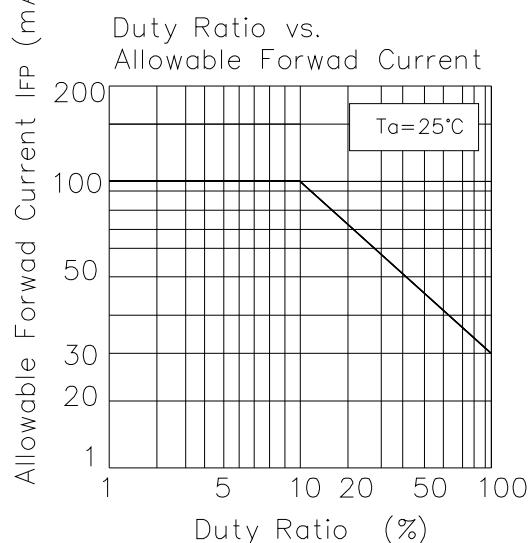
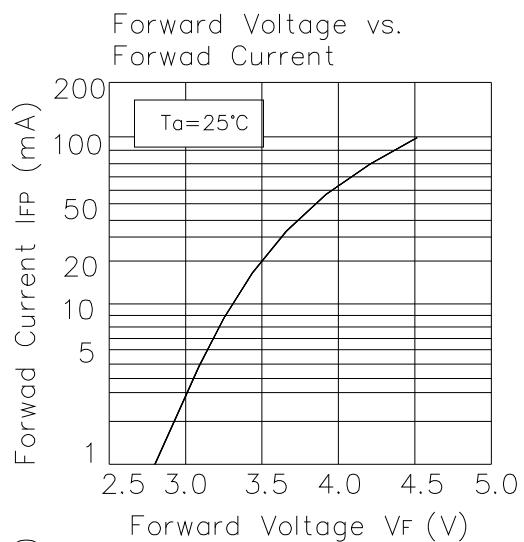
■ Typical Electrical & Optical Characteristics(Ta=25°)

Items	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =5mA	2.6	---	3.2	V
Reverse Current	I _R	V _R =5V	---	---	50	μ A
Dominant Wavelength	λ d	I _F =5mA	466	470	472	nm
Luminous Intensity	I _v	I _F =5mA	25	---	60	mcd
View Angle	2 θ 1/2	I _F =20mA	---	140	---	Deg

Rank	Luminous Intensity (mcd)	Rank	Luminous Intensity (mcd)	Rank	Luminous Intensity (mcd)
F	27~38	G	38~54	H	54~75

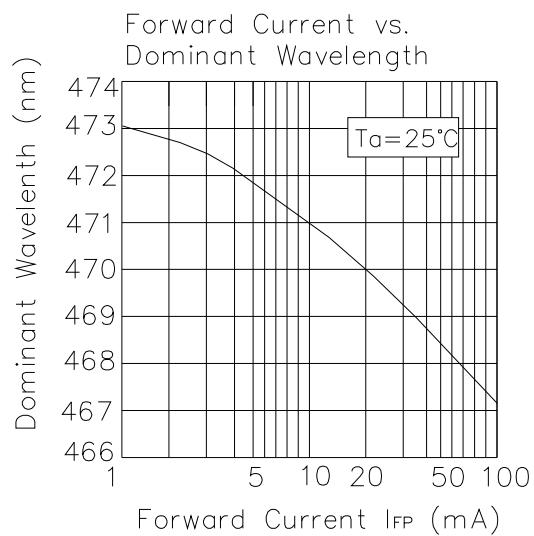
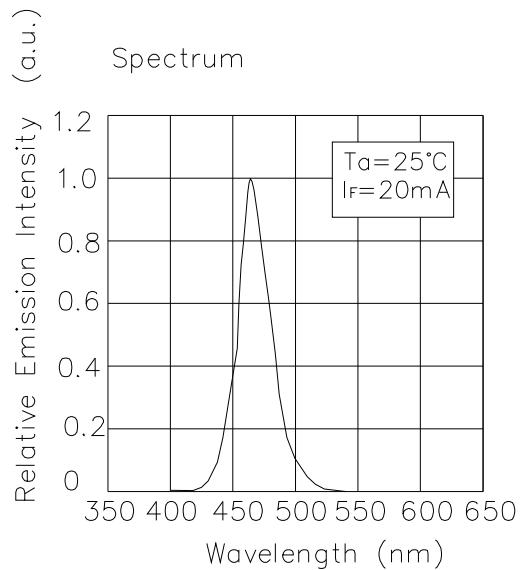
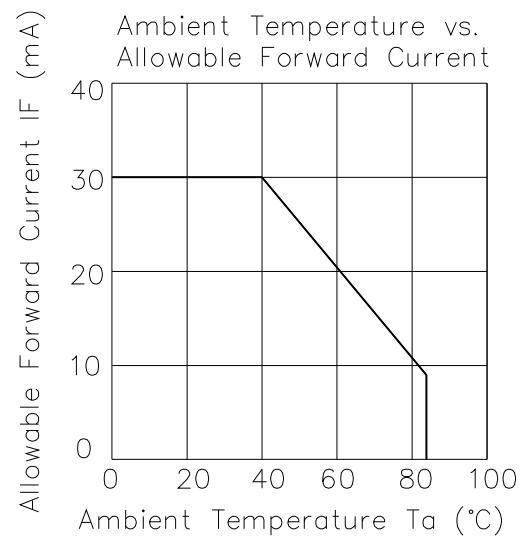
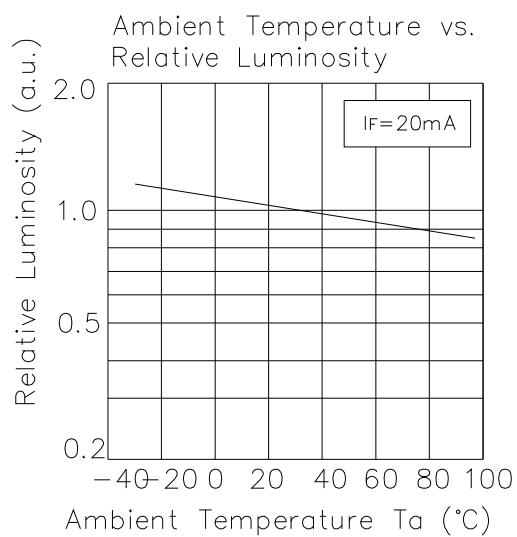
SMD-LED 0603 blue

■ Typical Electrical/Optical Characteristics Curves:



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■ Reliability Test :

Classification	Test Item	Standard Test Method	Test Conditions	Durati-on	Units Tested	Number of Damaged
Life Test	Operating Life Test	JIS7021:B4 MIL-STD-202:107D MIL-STD-750:1026	T _A =25°C ± 5°C, IF=30mA	1000h	22	0/22
Environment Test	High Temperature Storage	JIS7021:B10 MIL-STD-202:210A MIL-STD-750:2031	T _A =100°C ± 5°C	1000h	22	0/22
	Low Temperature Storage	JIS7021:B12	T _A = - 55°C ± 5°C	1000h	22	0/22
	Temp & Humidity Test	JIS7021:B11 MIL-STD-202:103D	T _A =85°C ± 5°C RH=85% ± 5% RH	1000h	22	0/22
	Thermal Shock Test	JIS7021:B4 MIL-STD-202:107D MIL-STD-750:1026	- 10°C ± 5°C ↔ -100°C ± 5°C 5min - 5min	50 Cycles	22	0/22
	Temperature Cycling Test	JIS7021:A3 MIL-STD-202:107D MIL-STD-750:1051	- 55°C ~ 25°C ~ 85°C ~ 25°C 3min -5min- 30min- 5min	50 Cycles	22	0/22
Mechanical Test	Resistance to Soldering Heat	JIS7021:A1 MIL-STD-202:210A MIL-STD-750:2031	260±5°C, 10±1sec	1 time	22	0/22
	Lead Integrity	MIL-STD-750D Method 2036.3	Load 2.5N 0°~90°~0°	3time	22	0/22

2.Criteria for Judging The Damage

Item	Symbol	Test Conditions	Criteria for Judgment	
Forward Voltage	V _F	I _F =20mA	Min	Max
Luminous Intensity	I _V	I _F =20mA	---	Initial Data × 1.1
			Initial Data × 0.7	---
Reverse Current	I _R	V _R =5V	100 μ A	