SYC SEMICONDUCTORES Y COMPONENTES

FLUX LED SPECIFICATION

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

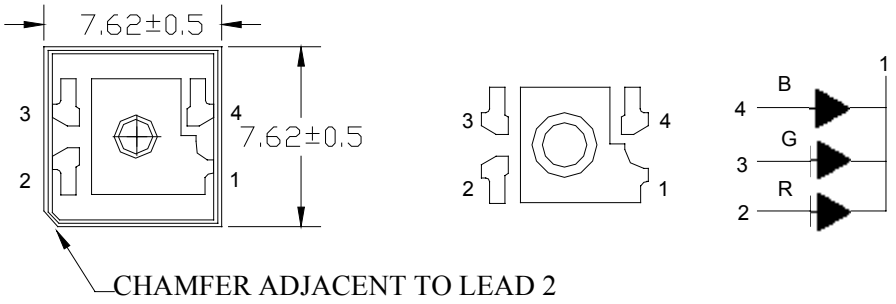
LED-160-80178

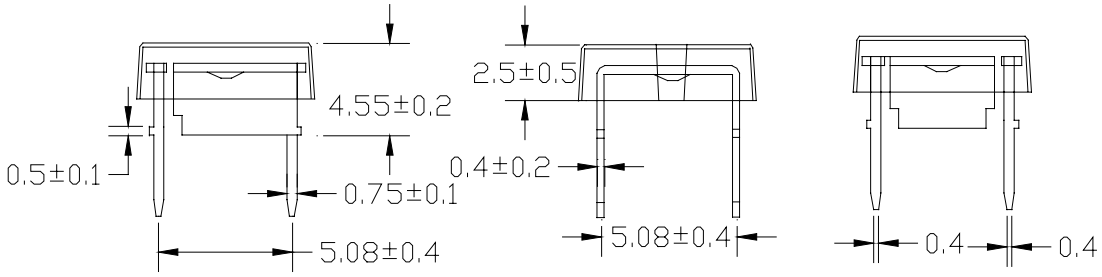
Fatures：

- Triple color
- High bright output
- High Current Operation
- Low power consumption
- High reliability and long life

Descriptions：

- Dice material：
  R/G/B：AlGaInP/InGaN//InGaN
- Device Outline：7.6mmX7.6mm
- Lens Type：Water Clear





NOTE:

- All dimensions are millimetres.
- Tolerance is +/-0.25mm unless otherivise noted

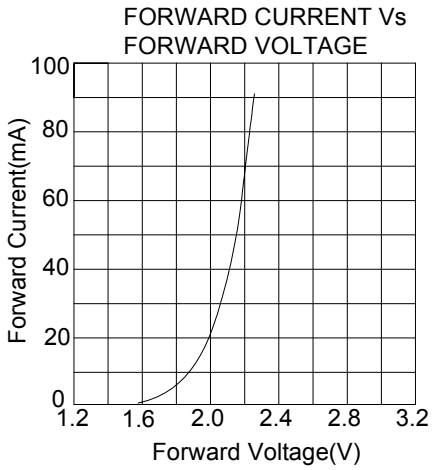
Absolute maximum ratings（Ta = 25℃）

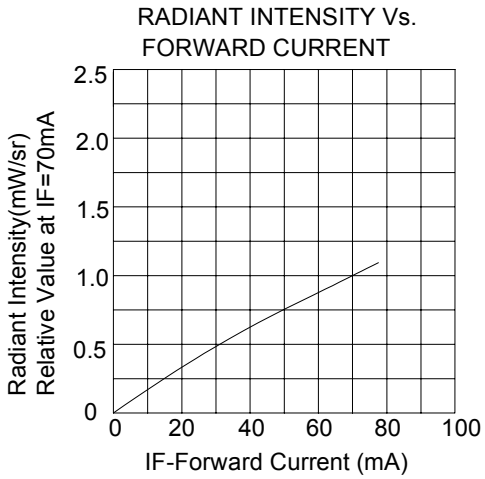
Parameter		Symbol	Test Condition	Value		Unit
				Min.	Max.	
Reverse Voltage		VR	IR = 30μA	5	----	V
Forward Current	R	IF	----	----	70	mA
	G			----	50	
	B			----	50	
Power Dissipation		Pd	----	----	150	mW
Pulse Current		Ipeak	Duty=0.1mS，1kHz	----	150	mA
Operating Temperature		Topr	----	-25	+85	℃
Storage Temperature		Tstr	----	-40	+100	℃

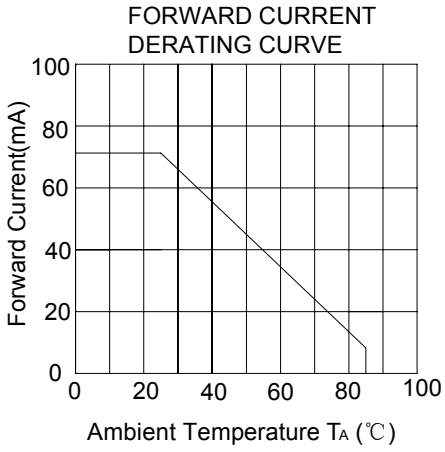
Electrical and optical characteristics （Ta = 25℃）

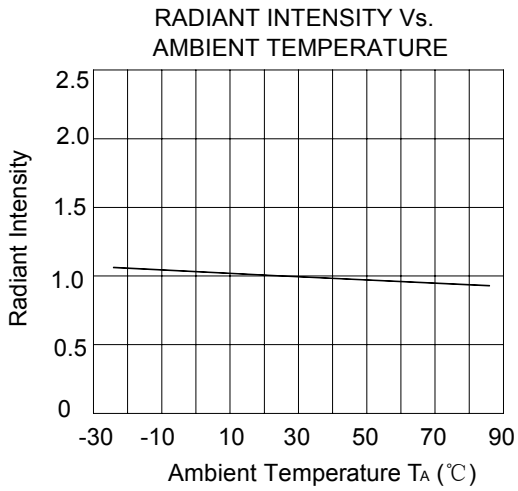
Parameter	Color	Symbol	Test Condition	Value			Unit
				Min.	Typ.	Max.	
Forward Voltage	R	VF	IF = 70mA	----	2.2	2.8	V
	G		IF = 50mA	----	3.8	4.6	
	B		IF = 50mA	----	3.8	4.6	
Reverse Current		IR	VR = 5V	----	----	30	μA
Dominate Wavelength	R	λd	IF = 70mA	----	625	----	nm
	G		IF = 50mA	----	525		
	B		IF = 50mA	----	470		
Peak Wavelength	R	λp	IF = 70mA	----	632	----	nm
	G		IF = 50mA	----	530		
	B		IF = 50mA	----	468		
Spectral Line half-width	R	Δλ	IF = 70mA	----	20	----	nm
	G		IF = 50mA	----	35		
	B		IF = 50mA	----	20		
Luminous Flux	R	IV	IF = 70mA	1300		2200	mlm
	G		IF = 50mA	2800		4700	
	B		IF = 50mA	770		1300	
Viewing Angle		2θ1/2	IF = 70mA	----	130	----	Deg.

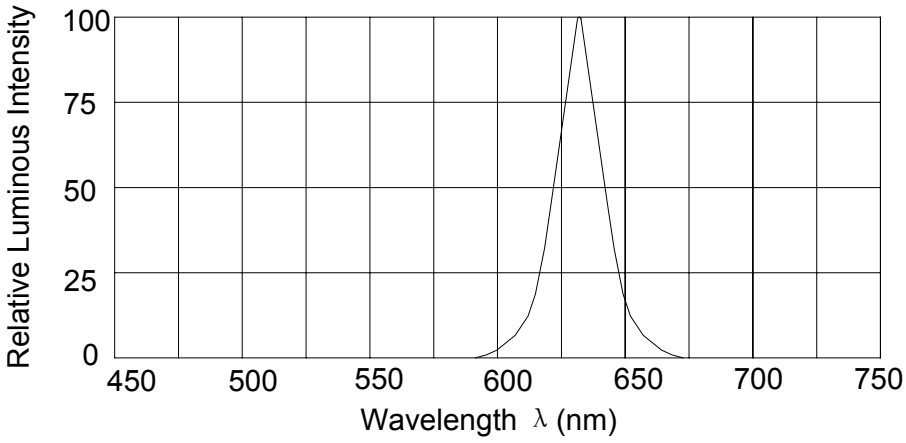
Typical electrical/optical characteristic curves------RED:



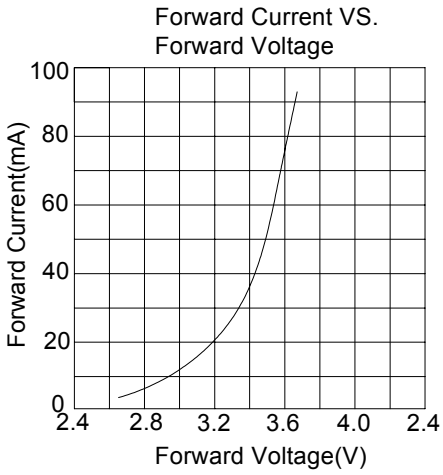


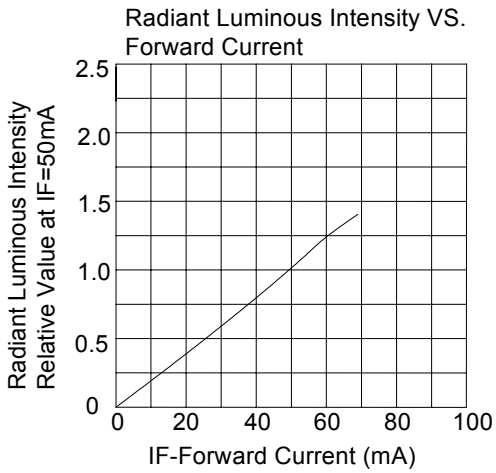


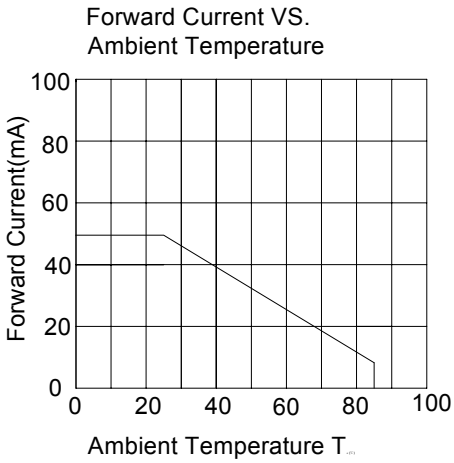


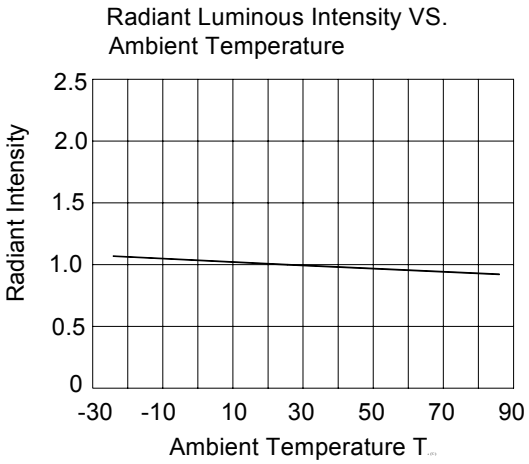


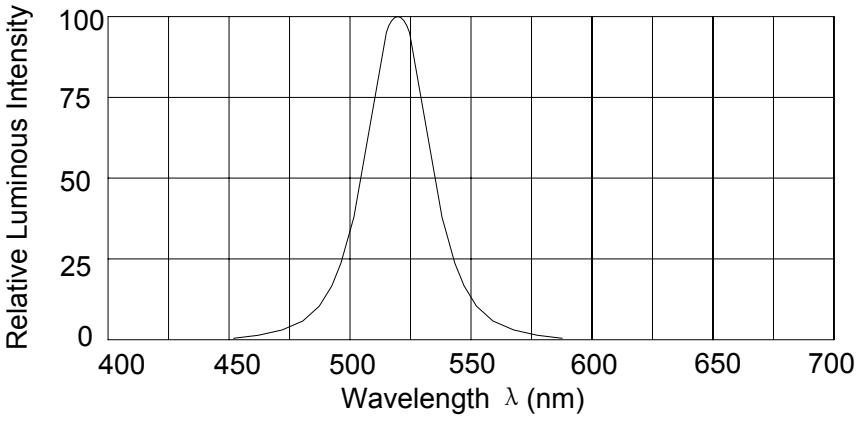
Typical electrical/optical characteristic curves------GREEN:











Typical electrical/optical characteristic curves------BLUE: