

LED – Light Emitting Diode

1-04-07-13 Preliminary

Surface Mount Device

Module No.: WSR3010GSC-20SG

Features:

GREEN

Water Clear

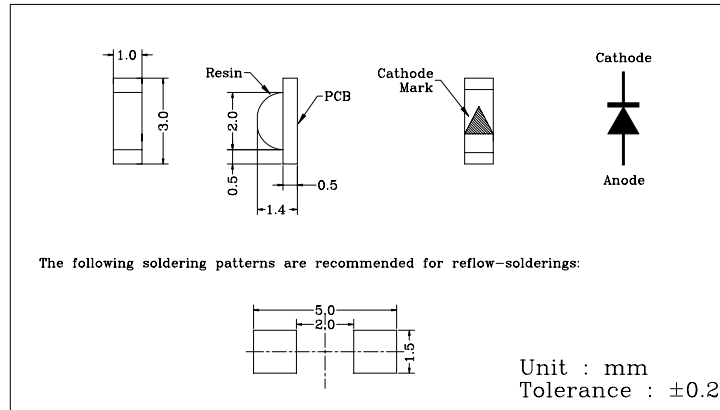
Super Bright

Tape & Reel

3.0mmX1.0mm

Right Angle

Dimensions



Absolute Maximum Ratings

(Ta=25°C)

Descriptions	Symbol	Value	Unit
Continuous Forward Current	I _F	25	mA
Peak Forward Current *1	I _{FM}	35	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{opr}	-25 ~ +65	°C
Storage Temperature	T _{stg}	-25 ~ +85	°C
Soldering Temperature *2	T _{sol}	260	°C

*1 Duty ratio = 1/10, Pulse width = 0.1ms.

*2 Soldering time: Maximum 5 seconds.

Reflow soldering: Pre-heating: 120~150°C for 60~120sec.

Operating heating: max 230°C for max 5sec.

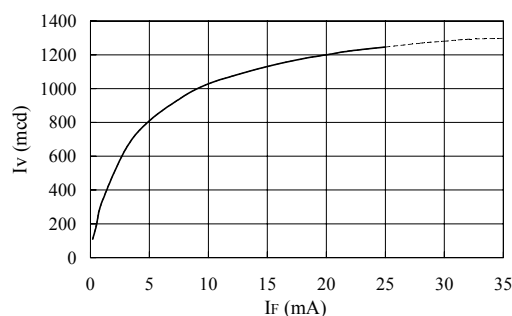
Electro-optical Characteristics

(Ta=25°C)

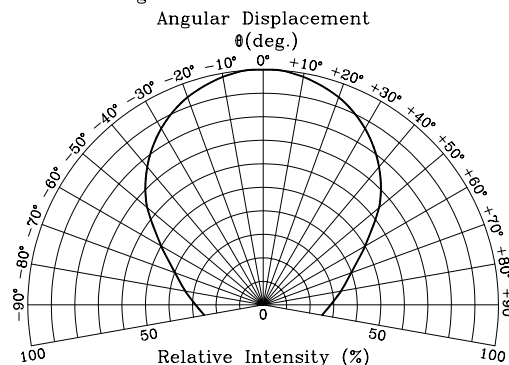
Descriptions	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F =20mA		2.1	2.8	V
Luminous Intensity *3	I _v	I _F =20mA	900	1200		mcd
Peak Emission Wavelength	λ _p	I _F =20mA		575		nm
Spectrum Radiation Bandwidth	Δλ	I _F =20mA		45		nm
Half Power Beam Angle	Δθ			±60		deg.
Terminal Capacitance	C _t			25		pF
Response Frequency	f _c			8		MHz

*3 Tolerance: ±30%

Luminous Intensity vs
Forward Current



Radiation Diagram



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