

LED – Light Emitting Diode

0-06-10-10

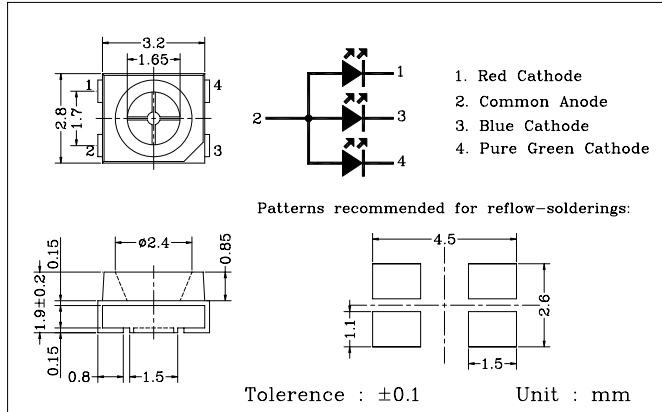
Surface Mount Device

Module No.: WS3228RBPUGUA-WL

Features:

Three Color
Red + Blue + Pure Green
Water Clear
Ultra Bright
Common Anode
Reflector Type
Top Lamp
3.2mm X 2.8mm

Dimensions



Absolute Maximum Ratings

(Ta=25°C)

Descriptions	Symbol	Value	Unit
Continuous Forward Current	IF	30	mA
Peak Forward Current *1	IFM	35	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-25 ~ +65	°C
Storage Temperature	Tstg	-25 ~ +85	°C
Soldering Temperature *2	Tsol	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 240°C for max 5sec.

Electro-optical Characteristics

(Ta=25°C)

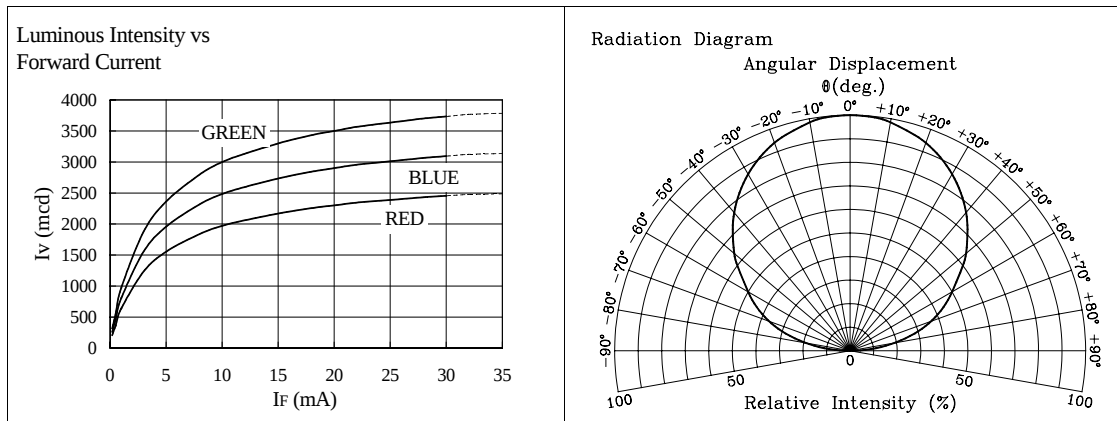
Descriptions	Symbol	Conditions	Min.	Typ.	Max.	Unit
Red	Forward Voltage	VF	IF=20mA	2.0	2.8	V
	Luminous Intensity *3	IV	IF=20mA	1500	2300	mcd
	Peak Emission Wavelength	λp	IF=20mA	623		nm
	Spectrum Radiation Bandwidth	Δλ	IF=20mA	20		nm
Blue	Forward Voltage	VF	IF=20mA	3.2	4.0	V
	Luminous Intensity *3	IV	IF=20mA	1700	2900	mcd
	Peak Emission Wavelength	λp	IF=20mA	470		nm
	Spectrum Radiation Bandwidth	Δλ	IF=20mA	30		nm
Pure Green	Forward Voltage	VF	IF=20mA	3.5	4.0	V
	Luminous Intensity *3	IV	IF=20mA	2200	3500	mcd
	Peak Emission Wavelength	λp	IF=20mA	520		nm
	Spectrum Radiation Bandwidth	Δλ	IF=20mA	30		nm
All	Half Power Beam Angle	Δθ		±60		deg.
	Terminal Capacitance	Ct		25		pF
	Response Frequency	fc		8		MHz

*3 Tolerance: ±30%

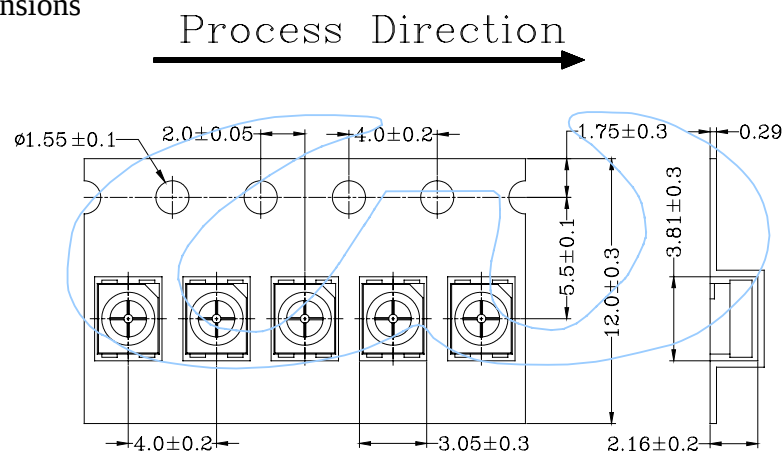
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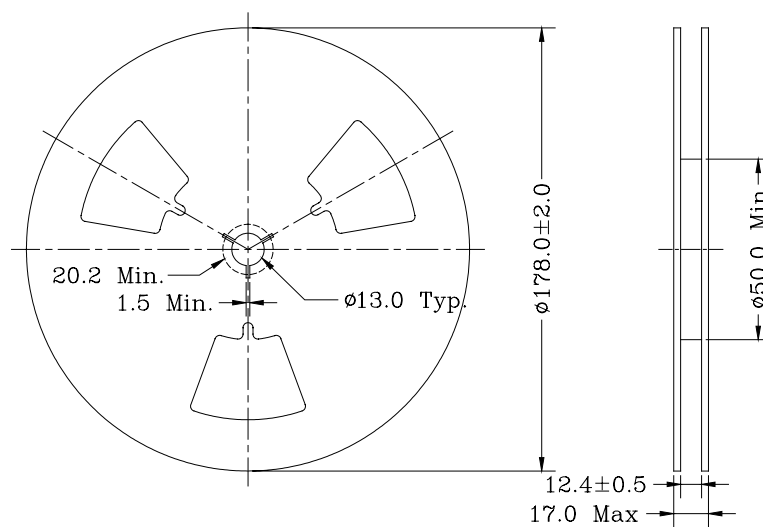


Tape Dimensions



Unit: mm

Reel Package: 2,000 pcs / reel



Unit: mm