

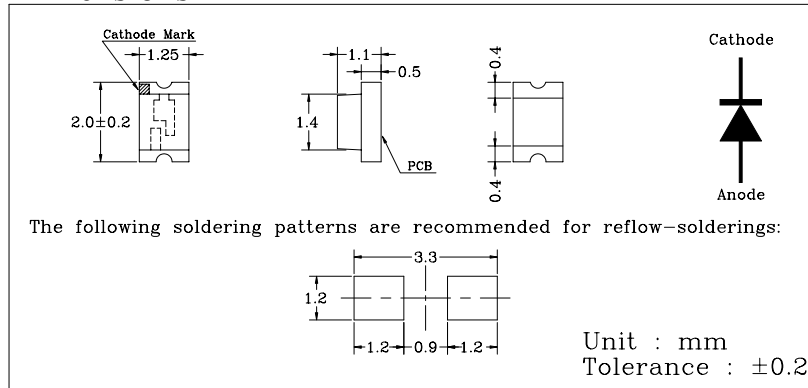
Surface Mount Device

Module No.: WS2012RUC-08G

Features:

RED
Water Clear
Ultra Bright
Tape & Reel
2.0mmX1.25mm

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: 140~150°C for 60~120sec.

Operating heating: max 230°C for max 3sec.

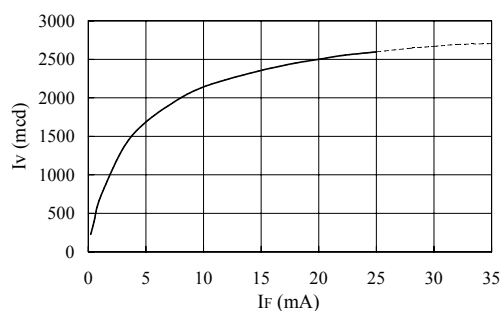
Electro-optical Characteristics

(Ta=25°C)

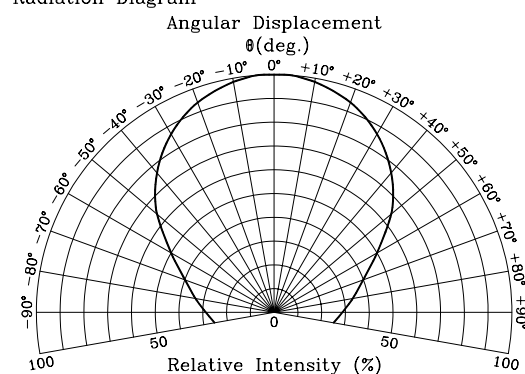
Descriptions	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20mA$		2.0	2.8	V
Luminous Intensity *3	I_v	$I_F=20mA$	1700	2500		mcd
Peak Emission Wavelength	λ_p	$I_F=20mA$		635		nm
Spectrum Radiation Bandwidth	$\Delta\lambda$	$I_F=20mA$		20		nm
Half Power Beam Angle	$\Delta\theta$			± 60		deg.
Terminal Capacitance	C_t			25		pF
Response Frequency	f_c			8		MHz

*3 Tolerance: $\pm 30\%$

Luminous Intensity vs
Forward Current



Radiation Diagram



LED – Light Emitting Diode

Surface Mount Device

Module No.: WS2012RUC-08G

