

Code:UR Ultra Ultra Bright Red (AlGaAs/GaAs)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage (Per dice)	Vf	If=20mA	1.84		2.2	V
Reverse Voltage (Per dice)	Vr	Ir=10uA		5		V
Luminous Intensity (Per dice)	Iv	If=20mA		85		mcd
Spectrum Width Of Half Value	$\Delta\lambda$	If=20mA		22		nm
Wavelength	D λ	If=20mA		622		nm
Peak Forward Current (Per dice) 1/10 Duty Cycle,0.1ms Pulse	I _{fp}		70			mA
Operating Temperature Range	T _{opr}	- 35 °C to 85 °C				
Storage Temperature Range	T _{stg}	- 35 °C to 85 °C				
Solder Temperature 1.5mm below seating plane for 3 Seconds at 260 °C						

Absolute Maximum Rating at Ta=25°C

Fig.1



Fig.2

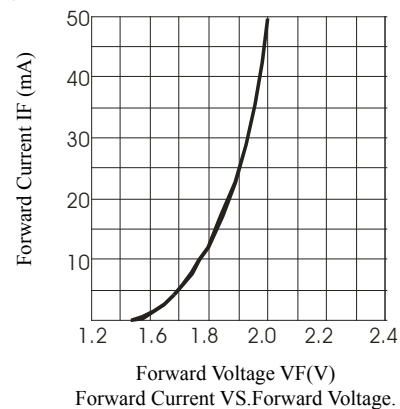


Fig.3

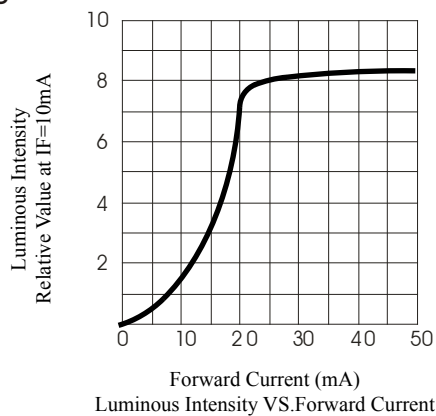


Fig.4



Wave Soldering for Lead-Free Through-hole LED



1.5mm below package base

Solder Temperature	260°C for 5 Seconds
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Lead-free SMT process



Lead solder Temperature	235°C for 5 Seconds
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Notes: Recommend the wave temperature max. 235 °C.
 Do not apply stress on the epoxy when temperature over 80 °C.
 No more than once.