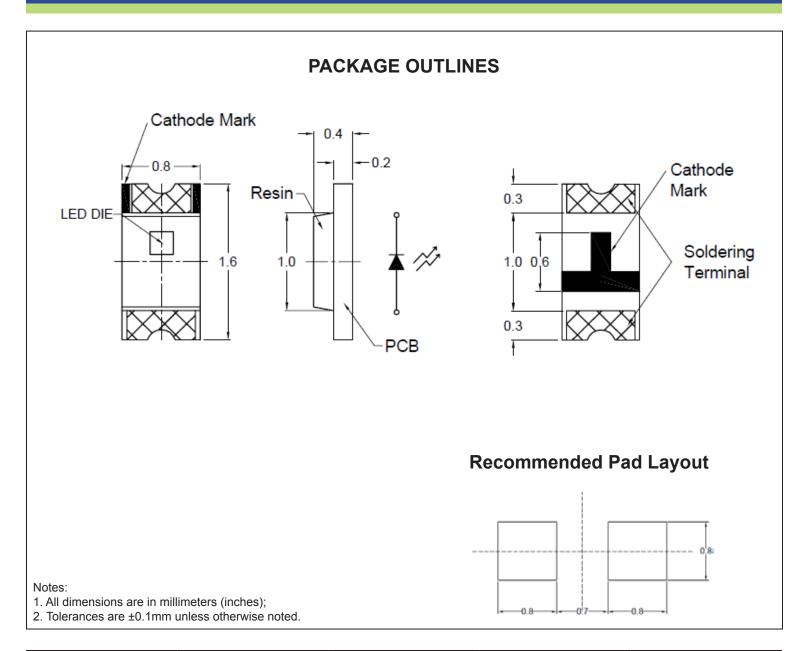


SPECIFICATIONS CS63CR3C



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS63CR3C	AlGaInP	Red	Water Clear	110°





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Value	Unit
Forward current	If	30	mA
Reverse current @ 5V	Ir	10	μΑ
Power dissipation	Pd	72	mW
Operating temperature range	Тор	-40~+85	°C
Storage temperature range	Tstg	-40~+90	°C
Peak pulsing current (1/10 duty f= 10KHz)	lfp	90	mA
Electrostatic Discharge	ESD	2000	V
Soldering Temperature	T _{SOL}	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

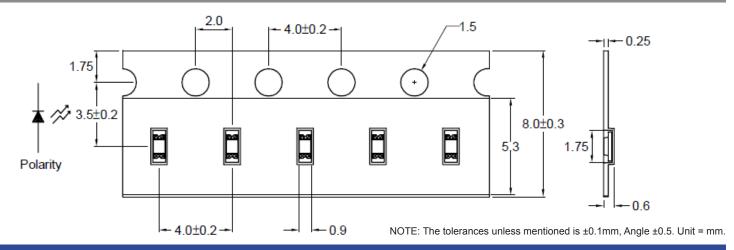
Da	0 1 1	T 10 III	Value				
Parameter	Symbol	Test Condition	Min	Тур	Max	Unit	
Wavelength at peak emission	λpeak	I _F = 20mA	-	642	ı	nm	
Spectral half bandwidth	Δλ	I _F = 20mA	ı	20	ı	nm	
Dominant wavelength	λdom	I _F = 20mA	-	630	1	nm	
Forward Voltage	Vf	I _F = 20mA	1.5	-	2.4	V	
Luminous intensity	lv	I _F = 20mA	30	80	-	mcd	
Viewing angle at 50% lv	20 ½	I _F = 20mA	-	110	-	Deg	

^{*}NOTE: 1. The forward voltage data did not including $\pm 0.1 \text{V}$ tolerance 2. The luminous intensity data did not including $\pm 15\%$ tolerance

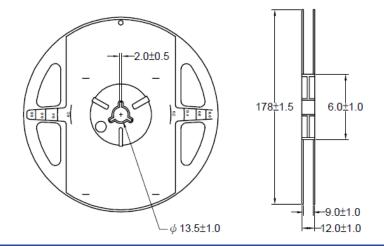




DIMENSIONS OF TAPE (Unit: mm)



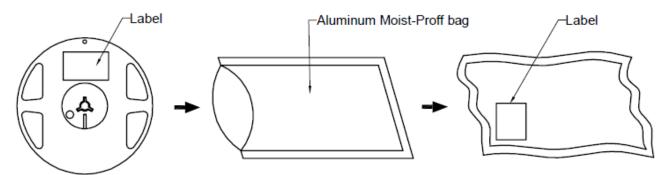
REEL DIMENSIONS



NOTES:

- 1. Empty component pockets are sealed with top cover tape;
- 2. The maximum number of missing lamps is two;
- 3. The cathode is oriented towards the tape sprocket hole.
- 4. 4,000pcs/Reel

PACKAGING SPECIFICATION







OPTICAL CHARACTERISTIC CURVES

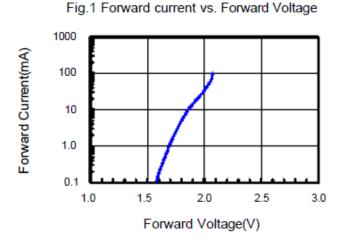


Fig.2 Relative Intensity vs. Forward Current

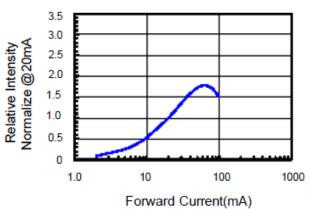


Fig.3 Forward Voltage vs. Temperature

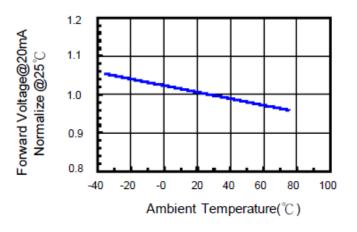


Fig.4 Relative Intensity vs. Temperature

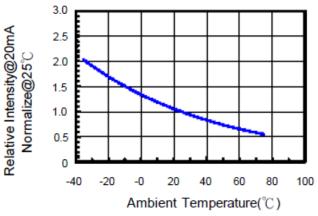


Fig.5 Relative Intensity vs. Wavelength

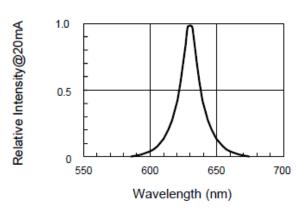
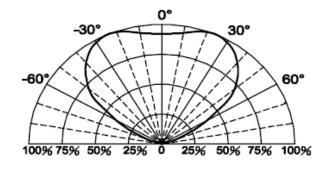


Fig.6 Directive Radiation







BRIGHTNESS BIN CODE

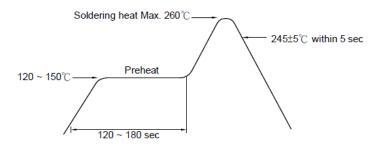
Group	(mcd) a	Unit		
Group	MIN	MAX	Offic	
N	32	50		
Р	50	80	Mad	
Q	80	125	Mcd	
R	125	200		

COLOR CODE FOR VISIBLE SMD

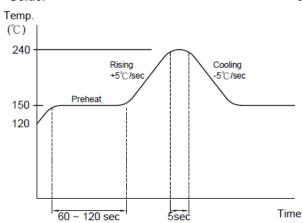
Group	(nm) a	Unit	
Group	MIN	MAX	Offic
29	624	627	
30	627	630	n na
31	630	633	nm
32	633	636	

SOLDERING CONDITIONS - LAMP TYPE LED

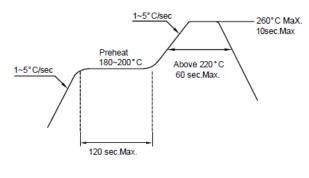
- Hand Solder
 - Basic spec is $\leq 280^{\circ}$ C 3 sec one time only.
- 2. Wave Solder



3-1. LEAD Reflow Solder



3-2 PB-Free Reflow Solder



Reflow Soldering should not be done more than two times.

