OptoSupply
Light It Up

3.5x3.5x2.0mm Ceramic Power Deep Red LED

OSR73535C1H-700MA

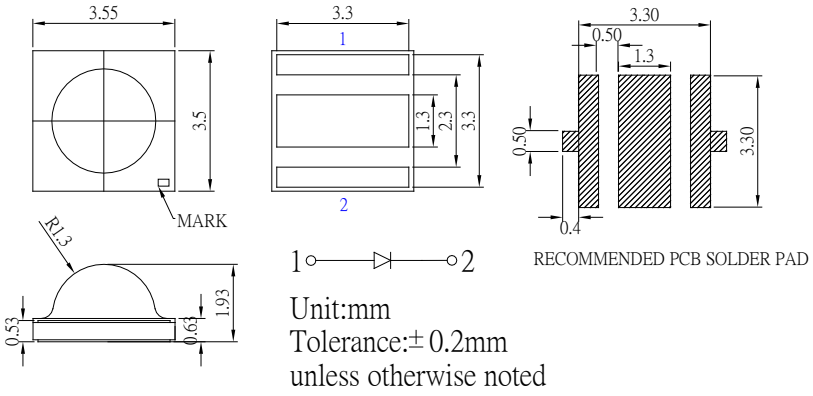
▪Features

- RoHS and REACH-compliant
- MSL 6 qualified according to J-STD 020

▪Applications

- Horticulture Lighting
- Green House Applications
- Indoor / Outdoor Commercial lights

▪Outline Dimension



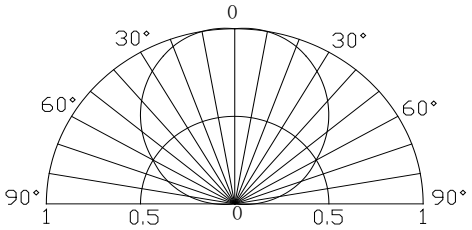
Unit:mm
Tolerance:± 0.2mm
unless otherwise noted

▪Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	800	mA
Pulse Forward Current#	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	2400	mW
Operating Temperature	Topr	-30 ~ +80	℃
Storage Temperature	Tstg	-40~ +80	℃
Lead Soldering Temperature	Tsol	240℃/5sec	-

#Pulse width Max.10ms Duty ratio max 1/10

▪Directivity



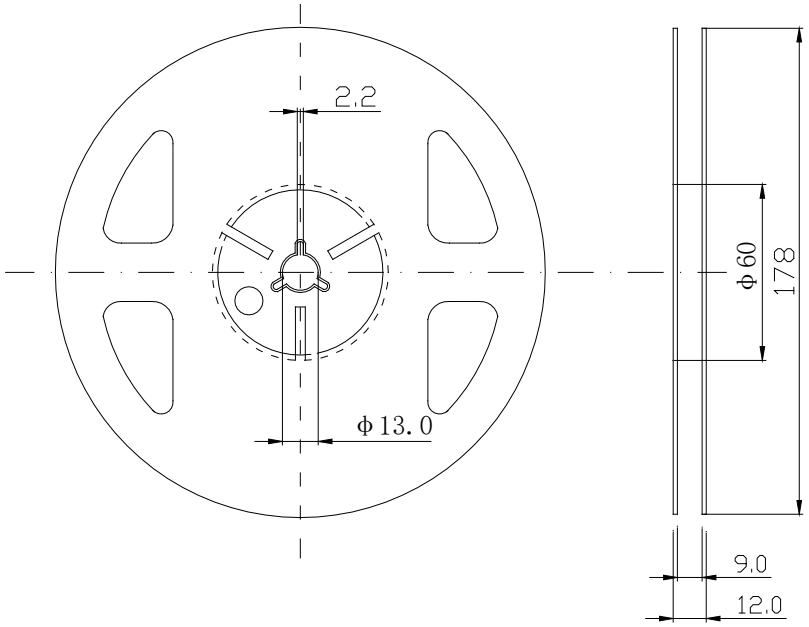
▪Electrical -Optical Characteristics (Ta=25℃)

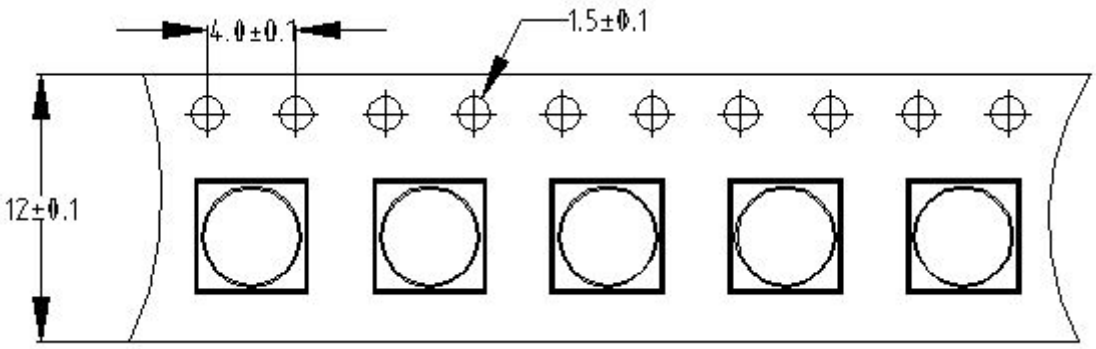
Part Number	Color			V_F (V)			I_R(μA)	Φv (LM)			WD(nm)			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I_F=700mA			V_R=5V	I_F=700mA						
OSR73535C1H-700MA	Red	R	■	-	2.6	3.0	10	30	40	-	650	660	670	120

*1 Tolerance of measurements of dominant wavelength is ±1nm
*2 Tolerance of measurements of Luminous Flux is ±15%
*3 Tolerance of measurements of forward voltage is ±0.1V

Note: Don't drive at rated current more than 5s without heat sink for Xeon 1 emitter series.

PACKAGING DIMENTIONS





Notes:

1. Unit: mm
2. 1000pcs/Reel

■ Soldering Heat Reliability:

· Reflow soldering Profile
· Reflow soldering should not be done more than two times.
· When soldering, do not put stress on the LEDs during heating.
· After soldering, do not warp the circuit board.
· Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.

Solder
Average ramp-up rate = 3ºC/sec. max.
Preheat temperature: 150º~180ºC
Preheat time = 120 sec. max.
Ramp-down rate = 6ºC/sec. max.
Peak temperature = 220ºC max.
Time within 3ºC of actual peak temperature = 25 sec. max.
Duration above 200ºC is 40 sec. max.