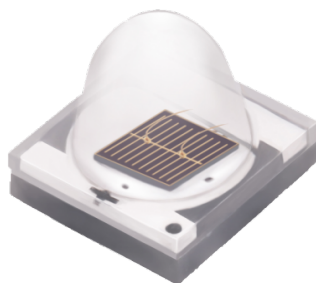


PRODUCT SPECIFICATION



Part No.: WL-3P3535EP60IR-750
SMD High Power LED

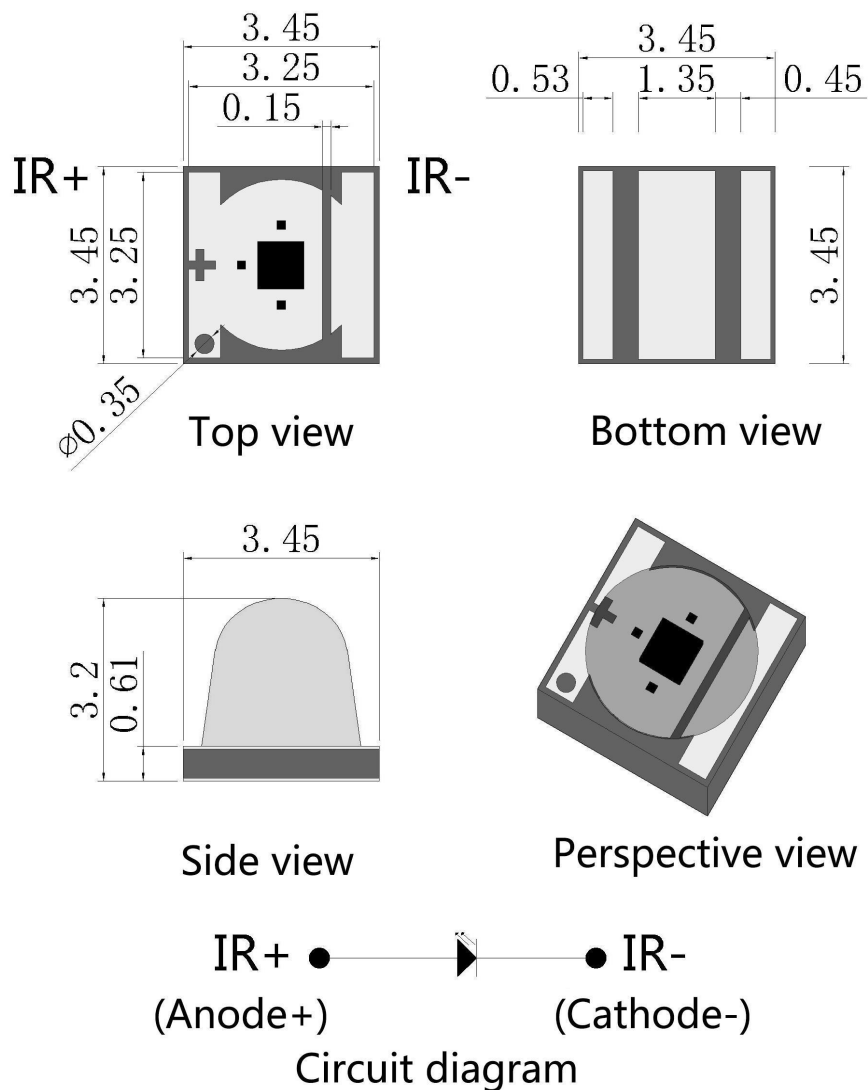
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1.Product Features

- High Brightness IR LED Round Package
- Viewing Angle 60 Degree
- Transparent Silicone
- Chip Material: AlGaAs
- RoHS Compliant

2.Dimensions



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.1 mm unless otherwise noted.

3. Absolute Maximum Rating @ Ta=25° C

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	700	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	1000	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	1.5	W
Electrostatic Discharge	ESD	1000	V
Operating Temperature Range	TOPR	-25°C to +60°C	
Storage Temperature Range	TSTG	-35°C to +80°C	
Lead Soldering Temperature	TSOL	260°C	

4. Optical Character @ Ta=25° C

Parameter	Symbol	Color	Min.	Typ.	Max.	Unit	Test Condition
Forward Voltage	VF	IR	1.8	2.0	2.2	V	IF=700mA
Radiant Power	PO	IR	300	400	500	mW	IF=700mA
Peak Wavelength	WIP	IR	750	752.5	755	nm	IF=700mA
Reverse Current	IR		0		10	μA	VR=5V
Viewing Angle	2θ1/2				60	deg	IF=700mA
Recommend Forward Current	IF(rec)	IR			700	mA	

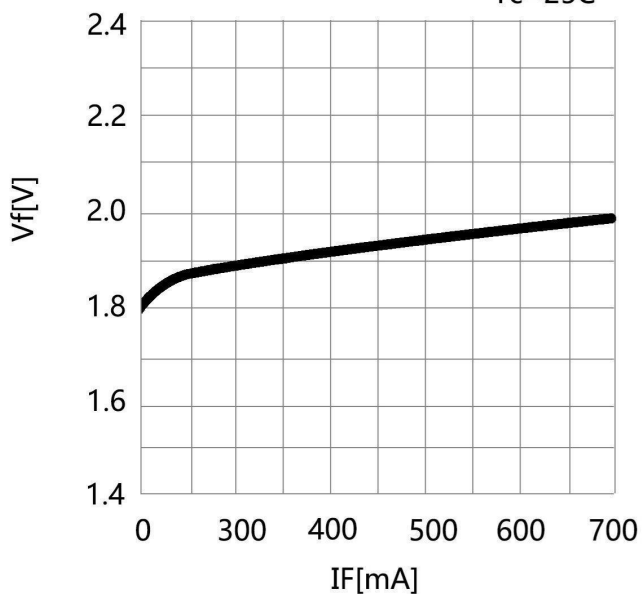
Notes:

Measurement tolerance of forward voltage ±0.1V

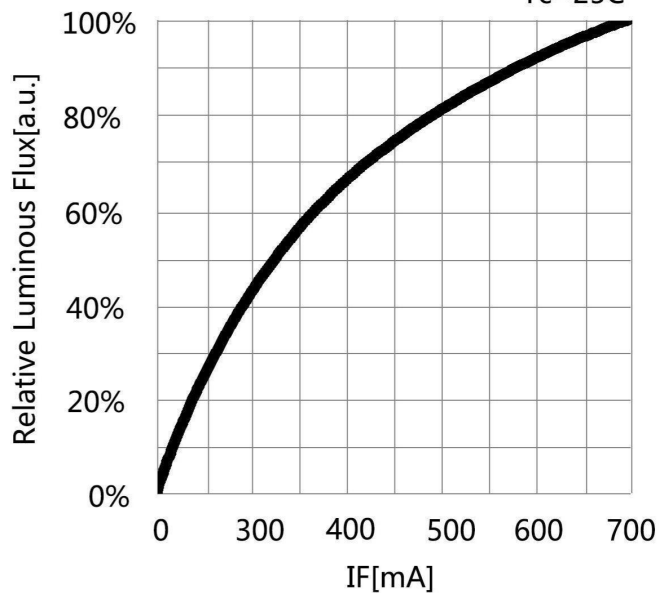
5. Optical Character Curves

(25 °C Ambient Temperature Unless Otherwise Noted)

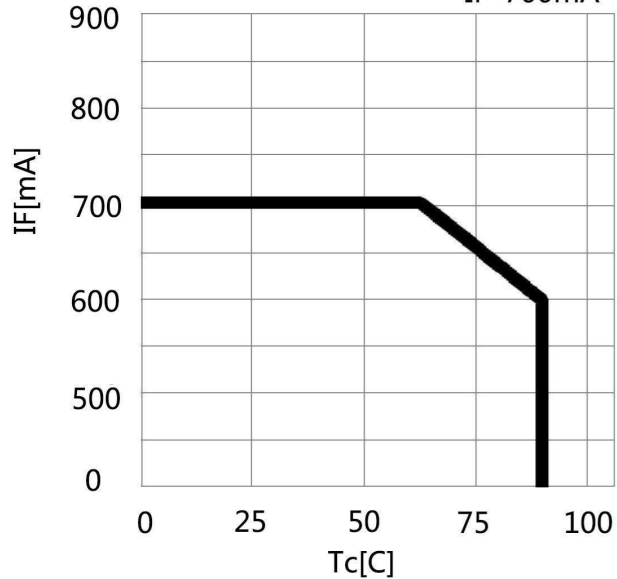
Forward Current vs. Forward Voltage
T_c=25°C



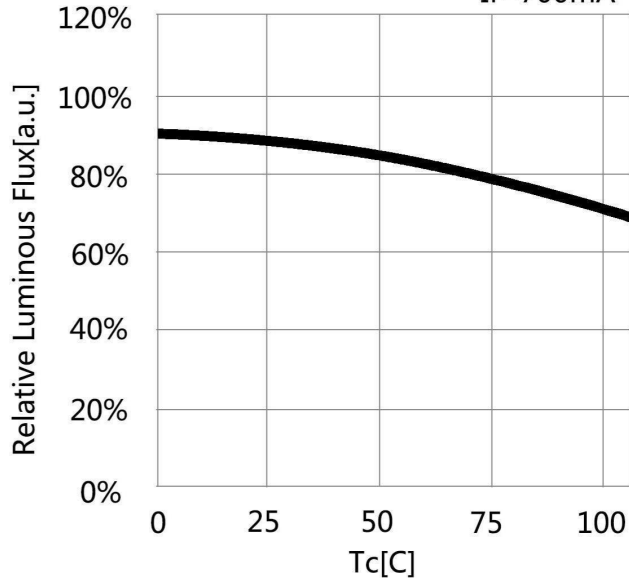
Forward Current vs. Relative Luminous Flux
T_c=25°C



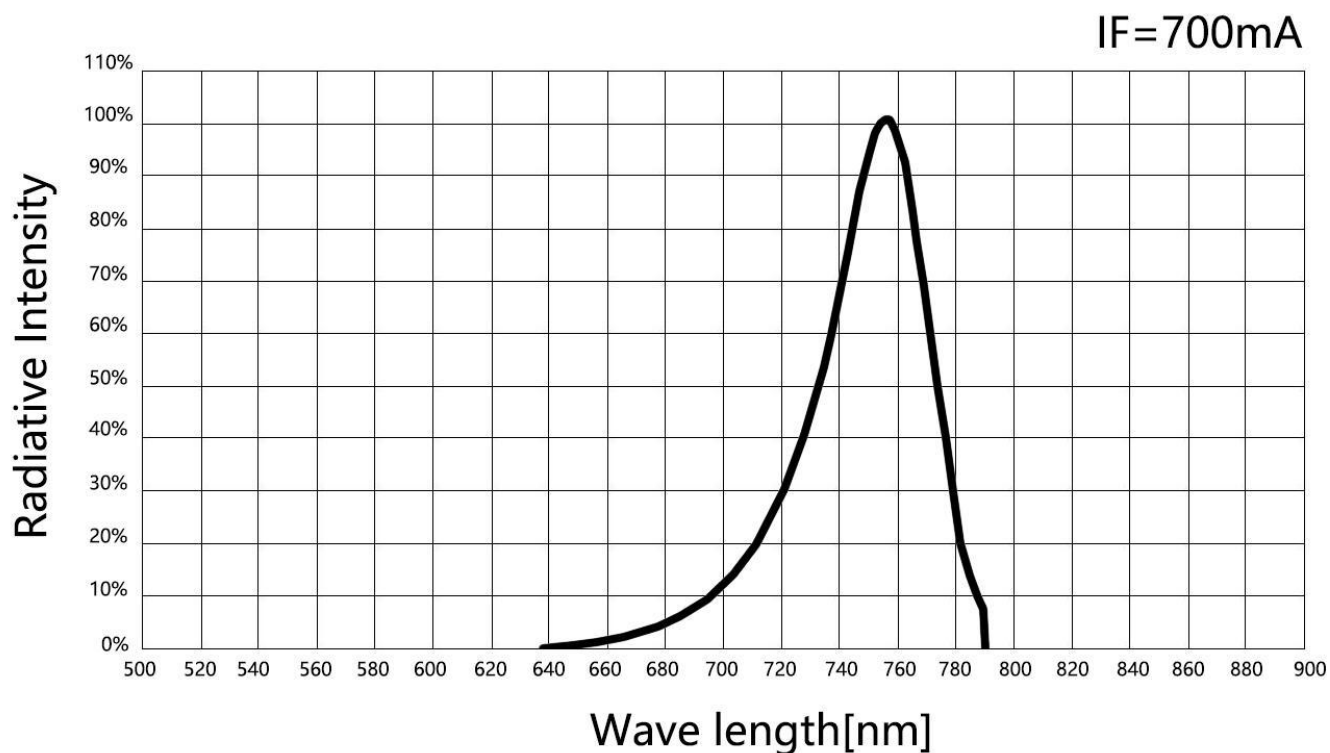
Case Temperature vs. Forward Current
I_F=700mA



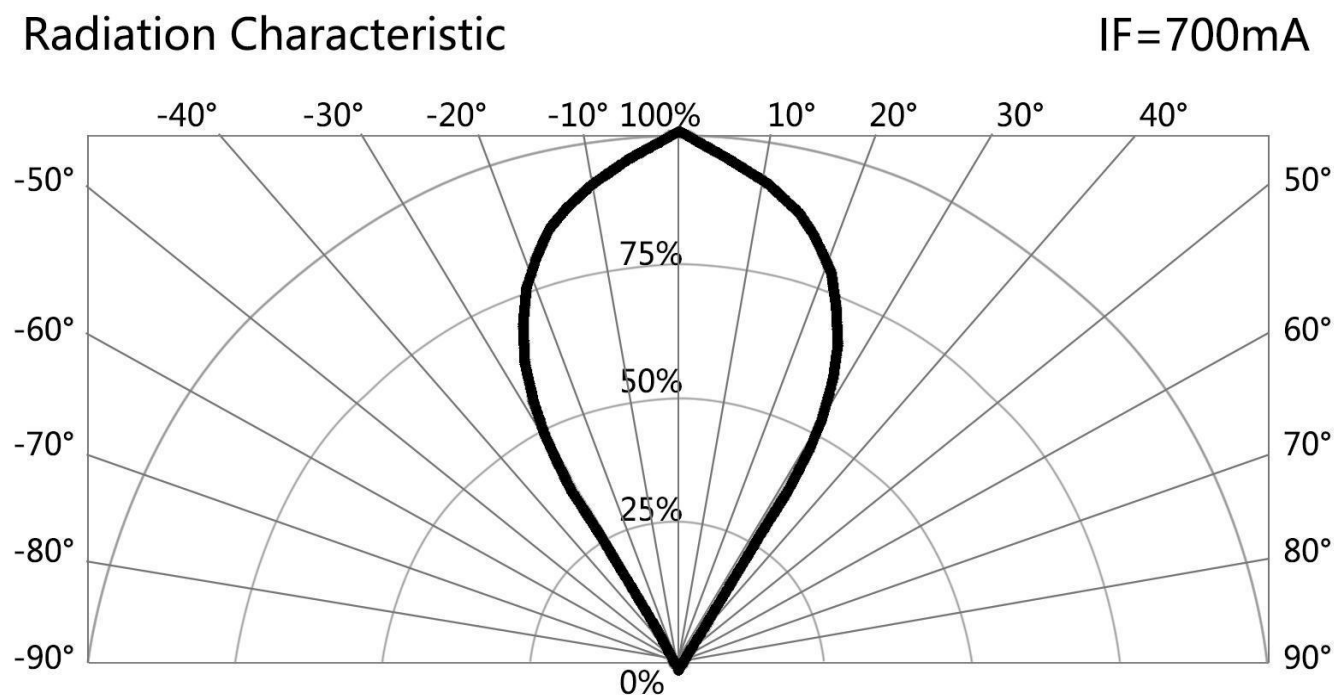
Case Temperature vs. Relative Luminous Flux
I_F=700mA



6. Spectrum Curves

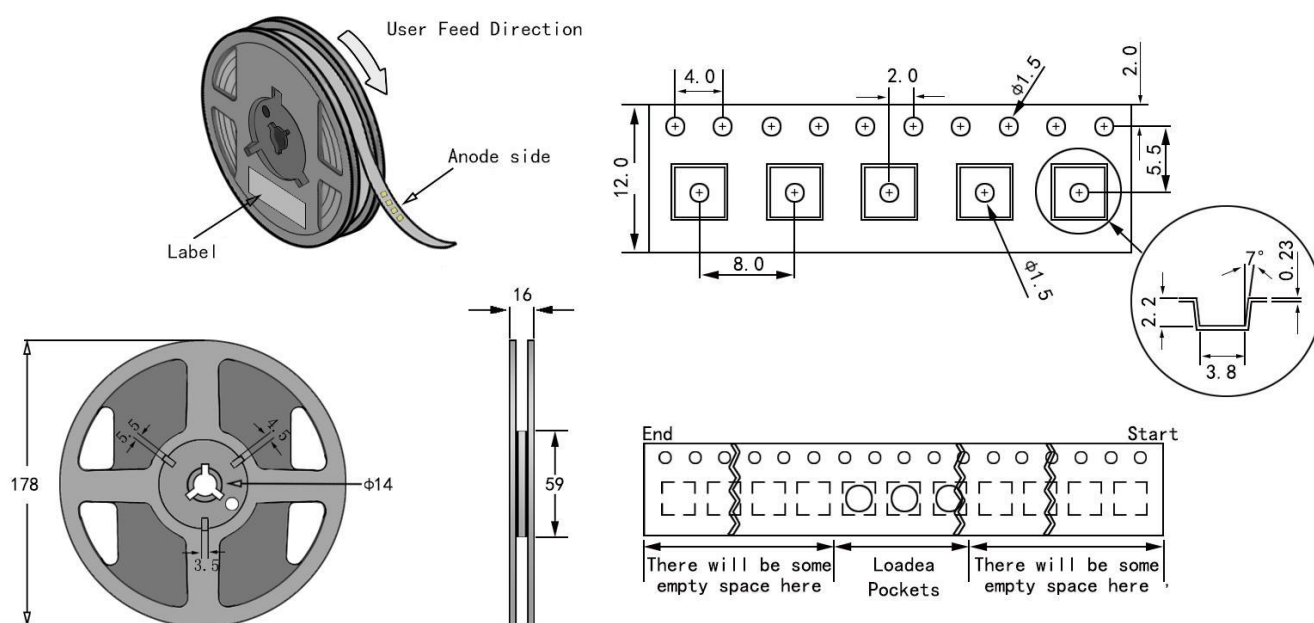


7. Viewing Angle Curves



8. Tape & Reel Packing

1. Recommend unpacked LED beads be welded within one day,if not,please vacuumize again and store in an environment of 20-35°C and 30-60% humidity. If can't vacuumize, please store LED beads in moisture proof box,control at 25°C±3°C, humidity 50-60%.If unpacked above 1week,bake at 60±5°C for 10-12 hours before weld.

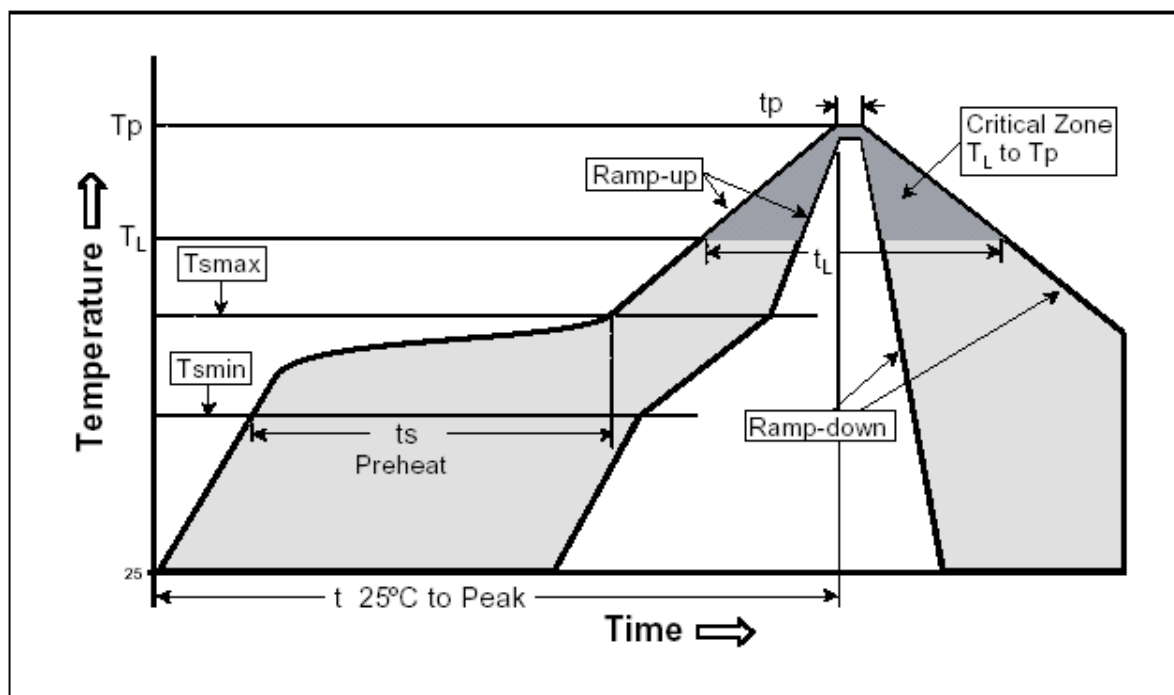


Notes:

1. QTY: 700pcs/Reel
2. Tolerance $\pm 0.2\text{mm}$.
3. Package: P/N

9.Soldering Advice

1. When soldering, don't touch the LED appearance gel during, this bad operation will destroy the LED. Molding LED usually use reflow soldering, please refer to the following reflow temperature curve, and recommend the user follow the soldering temperature curve of the solder paste.



Temperature Curve Character	Lead-free solder
Average heating rate(TSmin to Tp)	Top 3 °C / s
Preheating: Minimum temperature (TSmin)	90°C
Preheating: Maximum temperature (TSmax)	200°C
Preheating: Time (TSmin to TSmax)	60-180 s
Duration above temperature: Temperature TL	240°C
Duration above temperature: Time	60-150 s
Peak/classification temperature (Tp)	260°C
Time within 5°C of actual peak temperature (tp)	20-40 s
Cooling speed	The highest 6 °C / s
Time to reach peak temperature at 25°C	8 minutes Max

10.Cautions

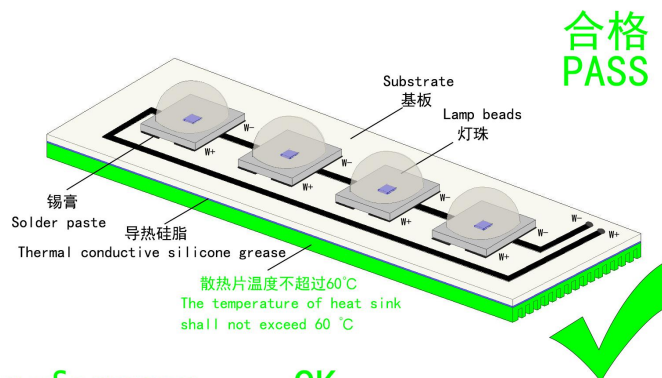
1. Electrostatic Treatment

Do a full range of anti-static measures (such as: anti-static ring, anti-static clothes, machine, equipment grounding wire, etc.)



2. Heat Dissipation

- A、 It is recommend to configure reasonable heat dissipation device for the product.
- B、 The best working temperature range of the product is 40-60°. It is recommended to control the working temperature of the product within a reasonable range.



3. Installation Conditions

reference OK

- A、 Do not exert any pressure on the LED area during the use of the led beads. If the machine is used to take materials, select a suction nozzle of reasonable size,such as below:

