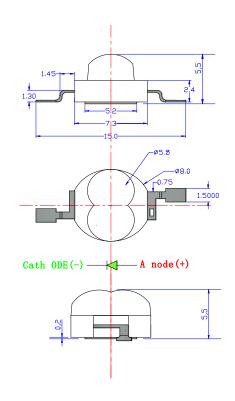
Part No.: E12LG2C-O

Features:

- Highest Flux
- High reliability and Very long operating life (up to 100K hours)
- Low voltage DC operated
- More Energy Efficient than Incandescent and most Halogen lamps
- NO UV
- Superior ESD protection
- RoHS Compliant

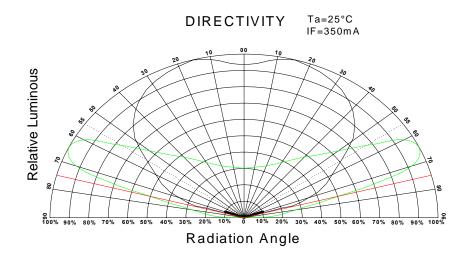
Typical Applications:

- Reading lights (car, bus, aircraft)
- Portable (flashlight, bicycle)
- Automotive Exterior (Stop-Tail-Turn, CHMSL, Mirror Side Repeat)
- Decorative

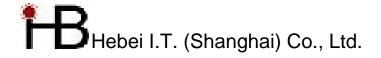


NOTE:

- All dimensions are millimeters.
- Tolerance is ± 0.1 mm unless noted



www.ledz.com 1/5



Part No.: E12LG2C-O

Absolute maximum ratings (Ta = 25° C)

Parameter	Symbol	Test Condition	Value		Unit
		rest Condition	Min.	Max.	Offic
DC Forward Current	IF			350	mA
Peak Pulse Current	Ipeak	Duty=0.1mS, 1kHz		500	mA
Power Dissipation	Pd			1.25	W
LED Junction Temperature	Tj			120	$^{\circ}$ C
Operating Temperature	Topr		-25	+100	$^{\circ}$ C
Storage Temperature	Tstr		-40	+120	$^{\circ}$ C
ESD Sensitivity		HBM	8000		V
Soldering Temperature			260°C for 5 Seconds max		

Electrical and optical characteristics (Ta = 25° C)

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Тур.	Max.	Offic
Forward Voltage	VF		3.0	3.3	4.0	V
Luminous Flux	Фγ		60	70		lm
Viewing Angle	2 θ 1/2-X	IF = 350mA		110		Deg.
Viewing Angle	2 θ 1/2-Y			160		Deg.
Dominant Wavelength	λd		520		530	nm

Luminous Flux Bins (Ta = 25°) Unit: Im

Bin	J	K	L
Min	60	70	80
Max	70	80	100

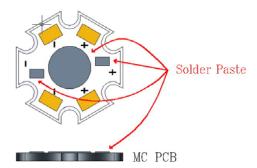
Note

- 1. Flux is measured with an accuracy of $\pm 15\%$
- 2. CCT is measured with an accuracy of ± 200K
- 3. Forward Voltage is measured with an accuracy of ± 0.15V

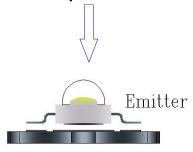
www.ledz.com 2/5

Heat Plate Soldering Condition

1. Soldering Process for Solder Paste



Use Solder Mask to print Solder Paste on MCPCB.



Place Emitter on MCPCB.



Put MCPCB on Heat Plate until Solder Paste melt. Put Emitter on MCPCB. Take the MCPCB out The Solder Paste sould be melted within 10 seconds. from Heat Plate within 10 seconds. Take out MCPCB out from Heat Plate within 10 seconds.

www.ledz.com 3/5

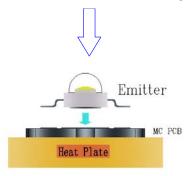
2. Soldering Process for Solder Wire



Put MCPCB on Heat Plate.



Place Solder Wire to the solder pad of MCPCB.



Put Emitter on MCPCB. Take the MCPCB out from Heat Plate within 10 seconds.

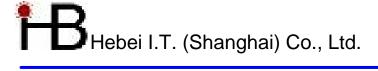
Heat plate temperature: 230°C max for Lead Solder and 260°C

. max for Lead-Free Solder.

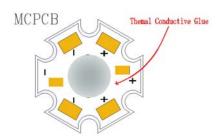
When soldering, do not put stress on the LEDs during heating.

After soldering, do not warp the circuit board.

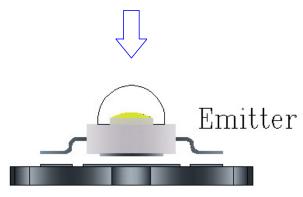
www.ledz.com 4/5



3. Manual Hand Soldering



Place Themal Comductive Glue on the MCPCB



Place Emitter on the MCPCB



Use Soldering Iron to solder the leads of Emtter within 5 seconds

- For prototype builds or small series production runs it possible to place and solder the emitters by hand.
 - Solder tip temperature: 230°C max for Lead Solder and 260°C max for Lead-Free Solder.
- . Avoiding damage to the emitter or to the MCPCB dielectric layer. Damage to the epoxy layer can cause a short circuit in the array.
- . Do not let the solder contact from solder pad to back-side of MCPCB. This one will cause a short circuit and damage emitter.

www.ledz.com 5/5