

SPECIFICATION FOR APPROVAL

CUSTOMER : oomlout

ARTICLE : $\phi 5$ Round Water clear green LED

PART NO : FLR-50T04-PG4

DATE : 2009-08-26

CUSTOMER MODEL:

RoHS PRODUCT

Authorized Signature



ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

 Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	20	mA
Peak Forward Current	IFP	120	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	80	mW
Operation Temperature	Topr	-35~+80	℃
Storage Temperature	Tstg	-40~+80	℃
Lead Soldering Temperature	Tsol	Max.260° for 3sec Max.	

*IFP Conditions:Pulse Width \leq 10msec duty \leq 1/10

*Tsol Conditions:4mm from the base of the epoxy bulb

 Typical Optical/Electrical Characteristics

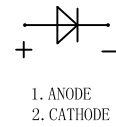
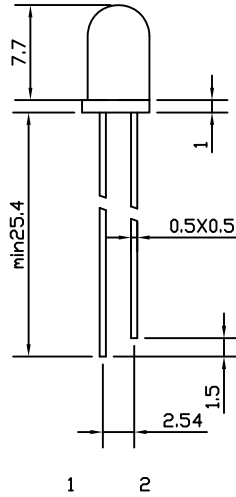
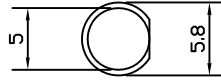
Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA	--	3.2	3.6	V
Reverse Current	IF	VR=5V	--	--	10	uA
50% Power Angle	$2\theta_{1/2}$	IF=20mA	--	13	--	deg
Luminous Intensity	IV	IF=20mA	16000	25000	--	mcd
Peak Wavelength	λ_p	IF=20mA	520	523	525	--
Recommend Forward Current	IF(rec)	--	--	10~20	--	mA

Notes:

1. Absolute maximum ratings Ta=25° C .
2. Tolerance of measurement of forward voltage \pm 0.1V.
3. Tolerance of measurement of peak Wavelength \pm 2.0nm.
4. Tolerance of measurement of luminous intensity \pm 15%.



Package Dimensions And Materials



1. ANODE
2. CATHODE

0.5 SQUARE*2

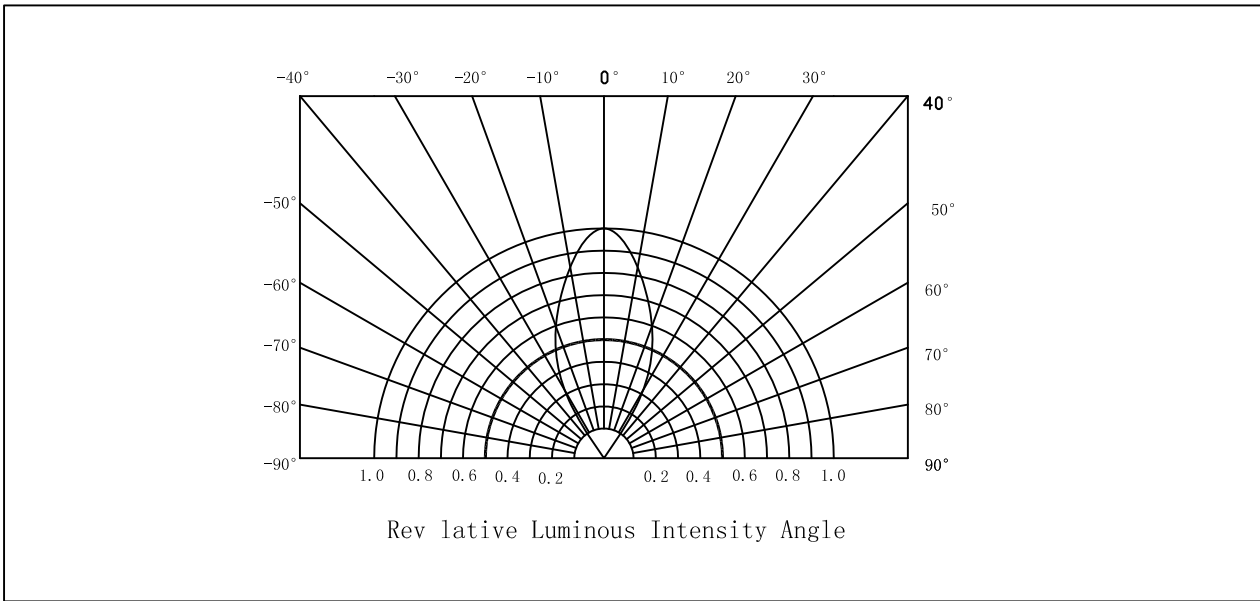
Chip		Lens Color
Dice Material	Emitting Color	
InGaN	green	WATER CLEAR

Notes:

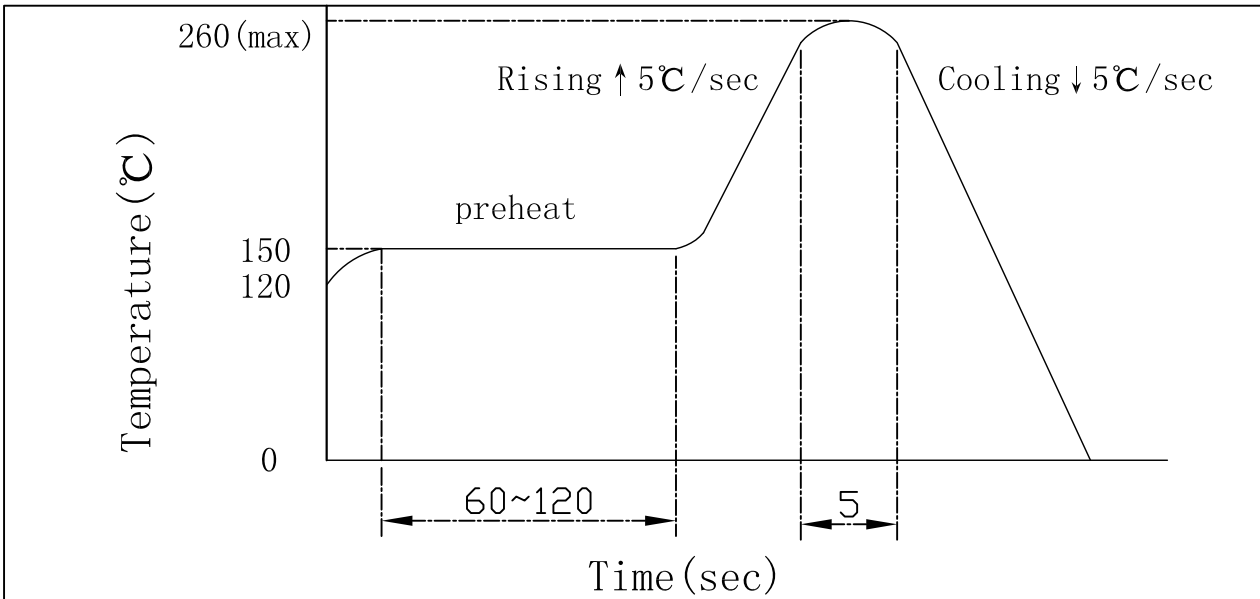
1. All dimension units are millimeters
2. All dimension tolerance is ± 0.2 mm unless otherwise noted
3. An epoxy meniscus may extend about 1.5mm down the leads
4. Burr around bottom of epoxy may be 0.5mm max



Spatial Distribution



Reflow Temp/Time



Soldering iron

Basic spec is ≤ 5 sec when 260°C. If temperature is higher, time should be shorter (+10°C-1sec) Power dissipation of iron should be smaller than 15W, and temperatures should be controllable. surface temperature of the device should be under 230°C