SPECIFICATION FOR APPROVAL

CUSTOMER:

ARTICLE: 5mm Standard Round White LED

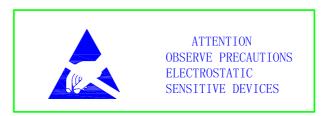
PART NO: FLR-50T04-HW7

DATE: 2011-03-22

CUSTOMER MODEL:

RoHS PRODUCT

Authorized Signature



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PRODUCTMODEL: FLR-50T04-HW7

LED Lamp

ØAbsolute 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	85	mW
Operation Temperature	Topr	-35 [~] +80	${\mathbb C}$
Storage Temperature	Tstg	-40 [~] +80	${\mathbb C}$
Lead Soldering Temperature	Tsol	Max. 260° for 3sec Max	ζ.

^{*}IFP Conditions:Pulse Width≤10msec duty≤1/10

ØTypicalOptical/ElectricalCharacteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA		3.0	3. 4	V
Reverse Current	IF	V _R =5V			10	uA
50% Power Angle	2 θ 1/2	IF=20mA		12		deg
Luminous Intensity	IV	IF=20mA	15000	20000		mcd
Chromaticity coordinates		IF=20mA		x=0.33 y=0.32		nm
Recommend Forward Current	Ir(rec)			10 [~] 20		mA

Notes:

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

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

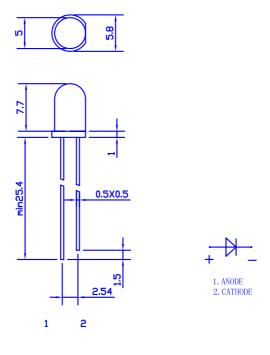


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PRODUCTMODEL: FLR-50T04-HW7

LED Lamp

ØPackage Dimensions And Materials



0. 5	SQUARE*2
0. 5	SQUARE*2

Chi	Lens Color					
Dice Material	Emitting Color	Lens Color				
InGaN	WHITE	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

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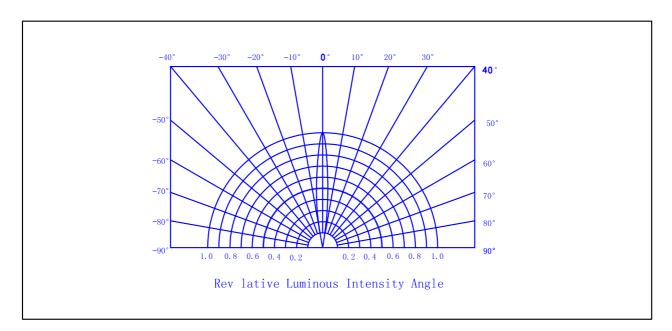


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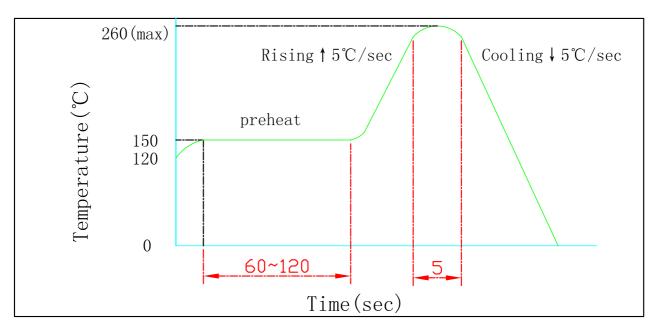
PRODUCTMODEL: FLR-50T04-HW7

LED Lamp

ØSpatial Distribution



ØReflow Temp/Time



ØSoldering iron

Basic spec is \leq 5sec 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

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Electro-Optical Characteristic (Ta=25℃)

PARAMETER SYMBOL	SYMBOL	TEST	Green		Orange		GaP Red		HI-EFF		Yellow		GaA1As		Blue		UNIT
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	UNII	
Forward Voltage	VF	IF=20mA	2.3	2.8	2. 2	2.8	2. 3	2.8	2. 2	2.8	2. 2	2.8	1.8	2.5	3. 5	4. 5	V
Reverse Current	IR	VR=5V		100		100		100		100		100		100		100	uA
Wavelength	λР	IF=20mA	570		635		700		625		590		660		430		nm
Spectral Line Halfwidth	Δλ	IF=20mA	30		35		100		35		35		20		30		nm

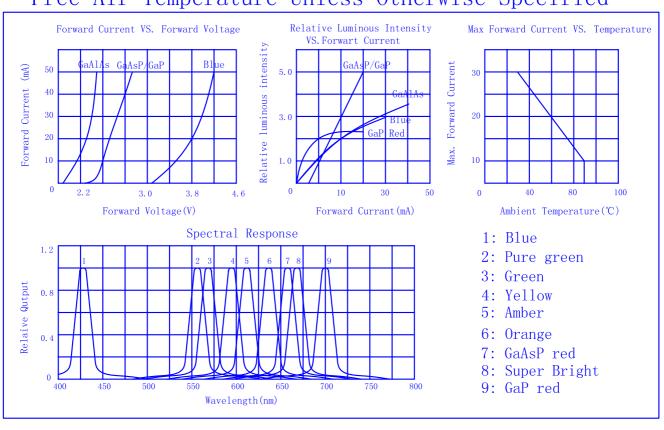
Absolute Maximum Ratings ($Ta=\pm 25^{\circ}$ C)

PARAMETER	Green	Orange	Gap Red	HI-EFF	Yellow	GaAlAs	Blue	UNIT	
Reverse Voltage Per Segment or D.P.	5	5	5	5	5	5	5	V	
Average Forward Current (IF)	25	25	25	25	25	30	50	mA	
Peak Forward Current Per Segment Or Dp	200	200	200	200	200	200	200	mA	
Power Dissipation	85	85	85	85	85	100	120	mW	
Operating Temperature Range	-35°C∼+80°C								
Recommend Storage Temperature Range	-35°C∼+80°C								
Load Calday Tamparatura (Am. Erom Dady) 960°C for 2000									

Lead Solder Temperature (4mm From Body) 260°C for 3 sec

Life:100000H

Typical Electron-Optical Characteristic Curves25°C Free Air Temperature Unless Otherwise Specified



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