SPECIFICATION FOR APPROVAL

CUSTOMER:

ARTICLE: 10mm RGB diffused with common anode LED

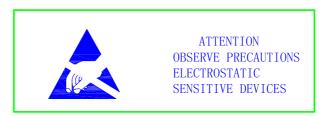
PART NO: FLR-100WAS-RGB

DATE: 2012-04-19

CUSTOMER MODEL:

RoHS PRODUCT

Authorized Signature



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PRODUCTMODEL: FLR-100WAS-RGB

♥Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	20	mA
Peak Forward Current	IFP	80/120/120	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	60/80/80	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

pticalOptical/ElectricalCharacteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF=20mA	1.8/3.0/3.0	2. 0/3. 2/3. 2	2. 2/3. 4/3. 4	V
Reverse Current	IF	V _R =5V			5	uA
50% Power Angle	2 θ 1/2	IF=20mA		50/50/50		deg
Luminous Intensity	IV	IF=20mA	500/1400/600	700/2100/900		mcd
Peak Wavelength	λp	IF=20mA	620/520/465	623/523/467	625/525/470	nm
Recommend Forward Current	IF(rec)			10 [~] 20		mA

Notes:

- 1. Absolute maximum ratings Ta= $25\,^{\circ}$ 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 $\pm 15\%$.

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LED Lamp

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

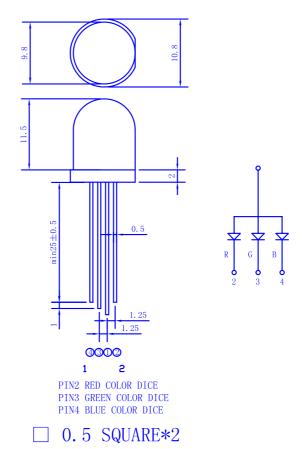


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PRODUCTMODEL: FLR-100WAS-RGB

LED Lamp

Package Dimensions And Materials



Lens Color	Chip			
Lens Color	Dice Material Emitting Color			
	RED	AlGaInP		
WHITE DIFFUSED	GREEN	InGaN		
	BLUE	InGaN		

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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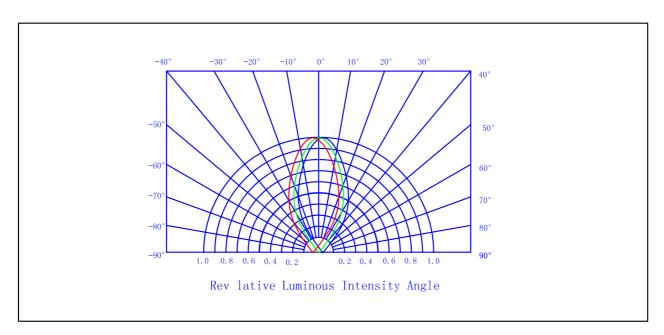


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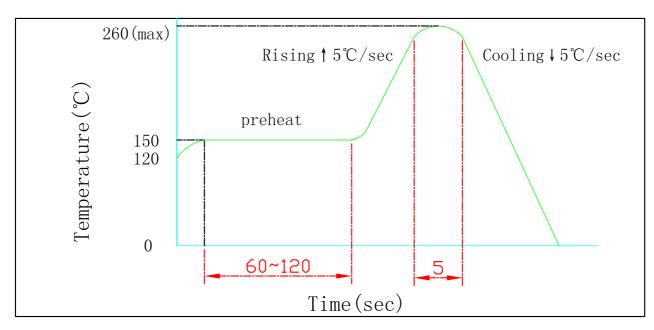
PRODUCTMODEL: FLR-100WAS-RGB

LED Lamp

♥Spatial Distribution



ØReflow Temp/Time



♥Soldering 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	OI TEST		Green		Orange		GaP Red		HI-EFF		Yellow		GaA1As		ue	UNIT
	CONDITTIONS	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

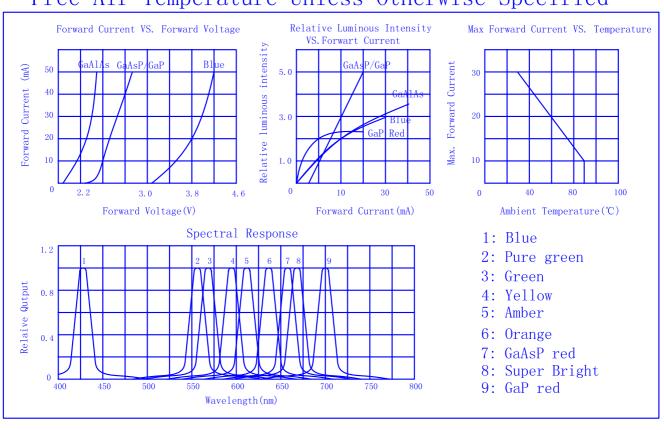
Absolute Maximum Ratings ($Ta=\pm 25^{\circ}$ C)

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 Calder Terranatura (Arm From Dady) 260°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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