

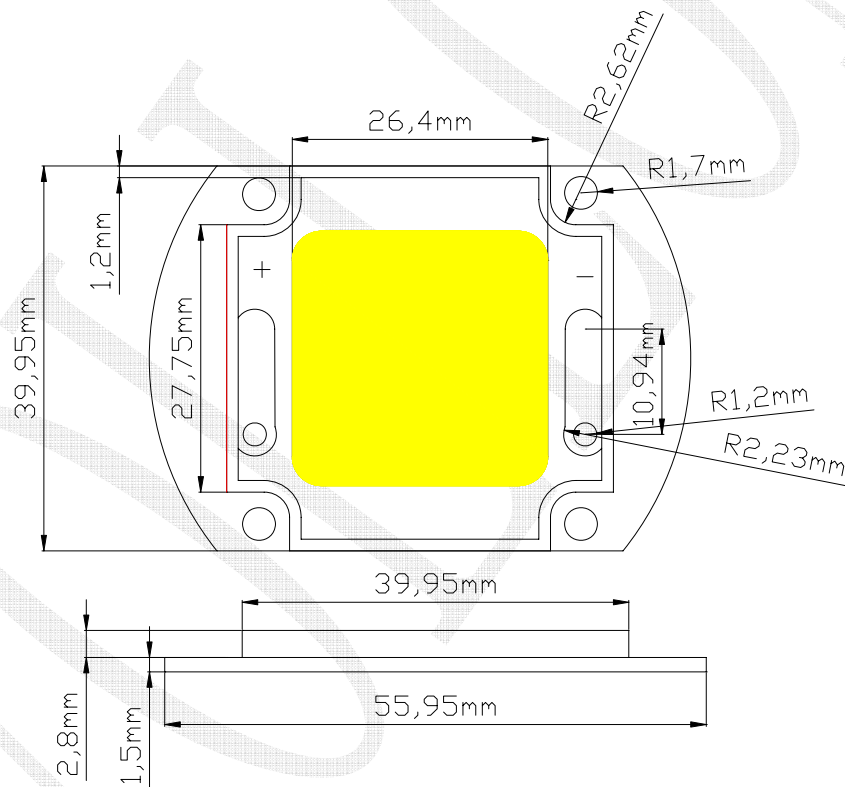


## PRODUCT SPECIFICATION

### ※ Features:

- ◇ More Energy Efficient than incandescent and most halogen lamps
- ◇ Long operating life
- ◇ Low forward voltage operated
- ◇ Instant light (less than 100ns)
- ◇ No UV

### ※ Outline Dimensions



REVISION	ECN/ECR INFORMATION	TITLE:	SHEET No.
<b>A</b>	ECN NO. DATE	50W Multichips High power LED	1 of 3
P/N#: VL-H05W5505080D55	CREATED By	CHECKED By	APPROVED BY



## PRODUCT SPECIFICATION

### ※ Absolute Maximum Ratings at Ta=25°C:

Parameter	Symbol	Maximum	Unit
Power Dissipation	Pd	50	W
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IF(peak)	5000	mA
Continuous Forward Current	IF	1600	mA
Reverse Voltage	VR	24	V
Operating temperature range	Topr	-20°C to + 60°C	
Storage Temperature Range	Tstg	-20°C to + 60°C	
Lead Soldering Temperature [1.6mm (0.63") from body]	260°C for 5 Seconds		

### ※ Electrical/Optical Characteristics at Ta=25°C:

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Luminous flux	$\phi$	IF=1600mA	3500	4000	4500	Lm
Viewing Angle	2 $\theta$ 1/2	IF=1600mA	110	115	120	deg
Forward Voltage	V <sub>F</sub>	IF=1600mA	30	33	36	V
Reverse Current	I <sub>R</sub>	VR=24V			50	uA
Color Rendering Index Calculation	Spm	X	0.29		0.32	
	Spm	Y	0.31		0.33	
Correspondingly	CCT	IF=1600mA	5000	5500	6000	K

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## PRODUCT SPECIFICATION

※Typical Electrical/Optical Characteristics Curve: (25°C Ambient Temperature Unless Otherwise Noted)

Fig1. Relative Intensity vs. Wavelength

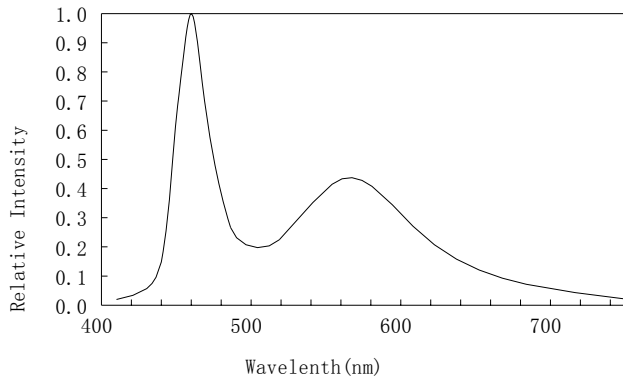


Fig2. Forward Current vs. Forward Voltage

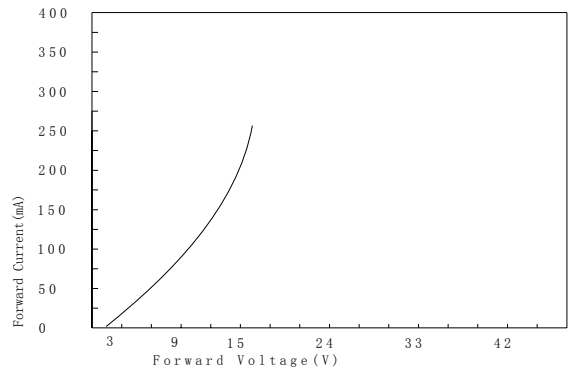


Fig3. Forward Current vs. Relative Intensity

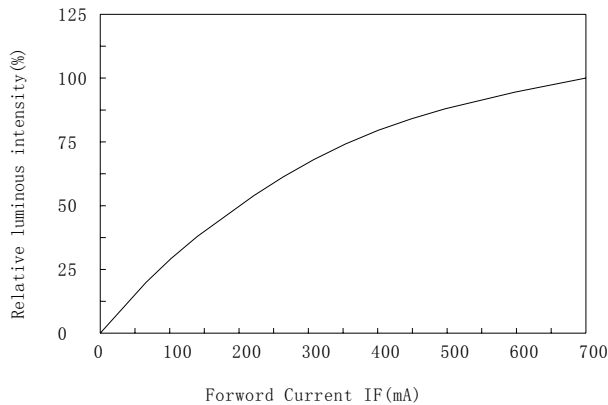
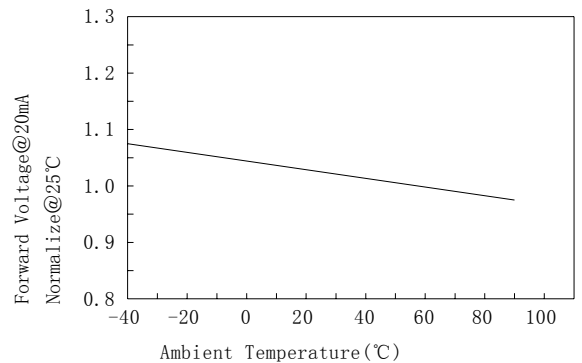


Fig4. Forward Voltage vs. Temperature



### ※Cautions:

Used this products , your may put the POWER LED lose hot chips and touch the lose hot install or enlarge the lose hot condition , so that when the lighting ,the products can lose hot , make sure that the lighting and long lifespan .

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