

规格书
SPECIFICATION

文件编号: YCS-QS-1-VCSEL-001
NO. _____
客户名称: _____
Customer: _____
版本: A1
Version NO.: _____
品 名: _____
Description YCS-VVAC3535L120SI-R0
规 格: _____
Model: VCSEL 850nm 800mW
送样日期: _____
Day: _____

客户承认章/签 CUSTOMER APPROVED	核准 APPROVED	制定 ISSUED
	卢淑芬	张鹏

Address: 10 Floor, A1 Building, Sunshine Industrial Park, Hezhou, Xixiang,
Bao'an District, Shenzhen, China.

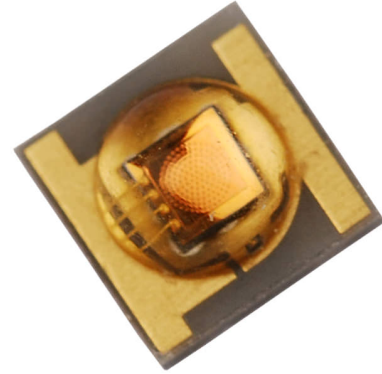
YCS-VVAC3535L120SI-R0

Features

- High slope Efficiency and Reliability
- Light source with coherence and better penetrability

Applications

- Laser Lighting
- Laser Sensors
- Interior automotive lighting

Absolute Maximum Rating at Ta=25°C

Parameter	Symbol	Rating Max.	Unit
Forward Current	IF	1200	mA
Power Dissipation	PD	3.12	W
Operating Temperature Range	Topr	-20~+60	°C
Storage Temperature Range	Tstg	-40~+120	°C
Lead Soldering Temperature	Tsol	260 for 10sec	°C

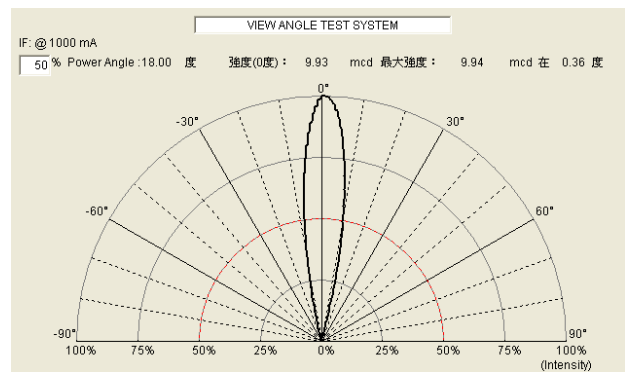
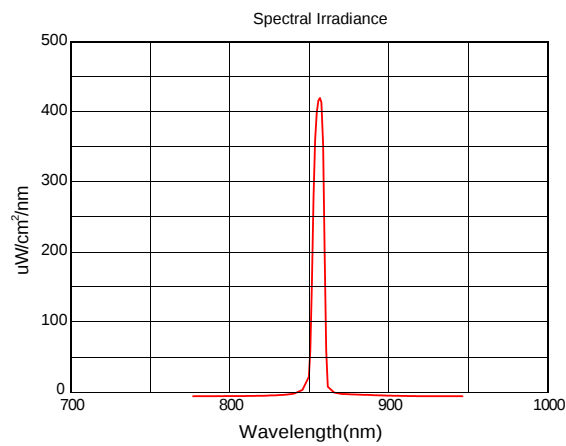
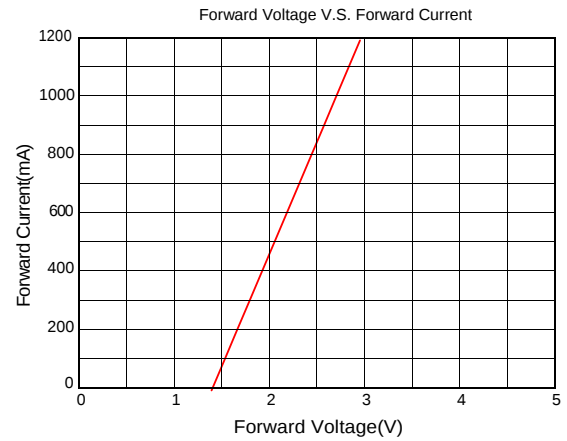
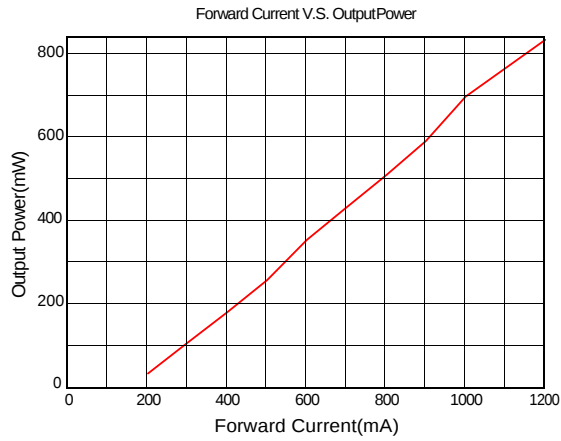
Electrical /Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test
Forward Voltage	V _f	--	2.4	2.6	V	I _f = 1000mA
Output Power	P _o	630	800	1000	mW	I _f = 1000mA
Peak Wavelength	λ _p	840	850	860	nm	I _f = 1000mA
ESD	VESD	--	--	4000	V	HBM
Junction Temperature ³	T _j	--	--	120	°C	--
Thermal Resistance Junction / Solder Point	R _{th}	--	4.5	--	°C/W	--

- Forward voltage (V_f) measurement allowance is ±0.1V.
- Peak Wavelength (λ_p) measurement allowance is ±1.5nm.
- Power (P_o) measurement allowance is ± 10%.

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Characteristics Curves



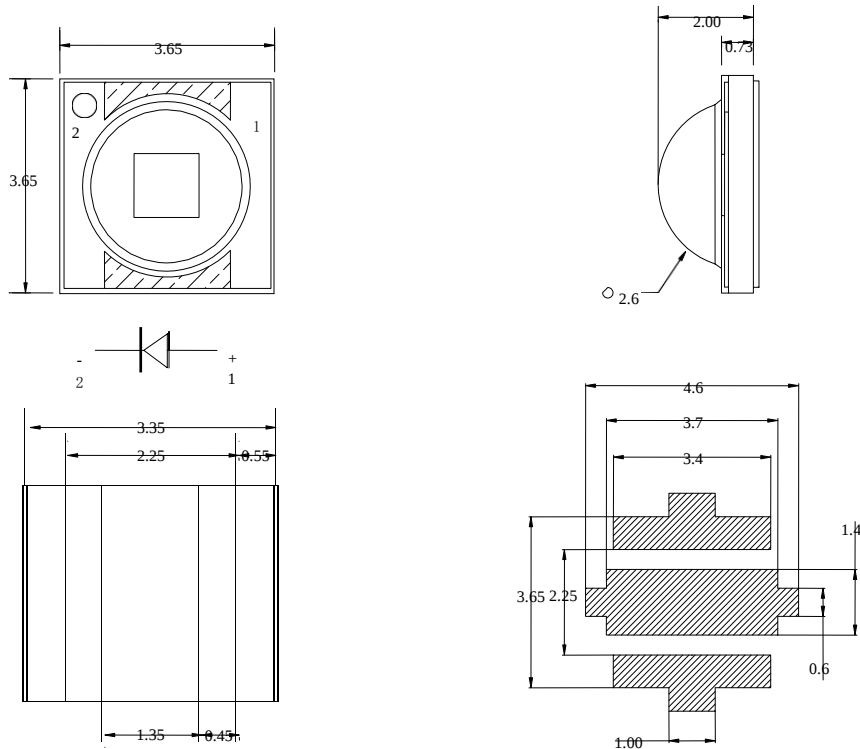
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Test items and results of reliability

Type	Test Item	Test Conditions	Note	Number of Damaged
Operation Sequence	Life Test	$T_a=25^{\circ}\text{C}$ $I_F=1000\text{mA}$	1000 hrs	0/22
	High Temperature Life Test	$T_a=60^{\circ}\text{C}$ $I_F=1000\text{mA}$	1000 hrs	0/22
Environmental Sequence	Temperature Cycle	-45°C 30min $\uparrow\downarrow 20$ min 105°C 30min	50 cycle	0/22
	Thermal Shock	-10°C 15min $\uparrow\downarrow 5\text{sec}$ 100°C 15min	50 cycle	0/22
	High Humidity Heat Cycle	$30^{\circ}\text{C} \leftrightarrow 65^{\circ}\text{C}$ 90%RH 24hrs/1cycle	10 cycle	0/22
	High Temperature Storage	$T_a=100^{\circ}\text{C}$	1000 hrs	0/22
	Humidity Heat Storage	$T_a=85^{\circ}\text{C}$ RH=85%	1000 hrs	0/22
	Low Temperature Storage	$T_a=-40^{\circ}\text{C}$	1000 hrs	0/22

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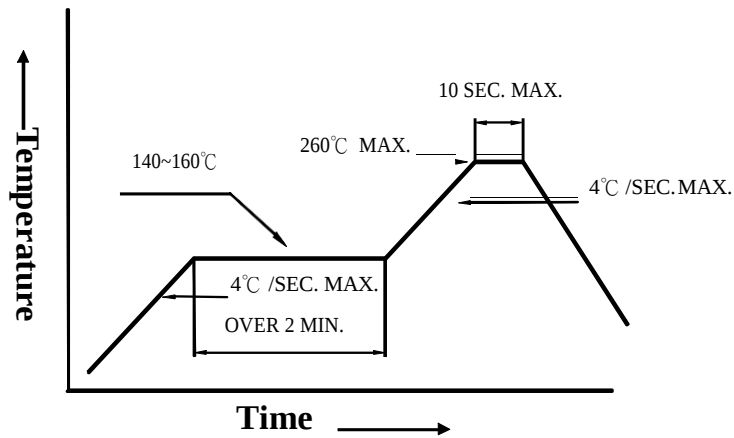
Package Dimensions(Unit : mm)



NOTES :

- All dimensions are in millimeters.
- Tolerance is $\pm 0.1\text{mm}$ unless otherwise specified.
- Specifications are subject to change without notice.

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Solder Reflow Process Parameters**NOTES :**

- Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and Second soldering process,
- When soldering , do not put stress on the package during heating.

Tapping and packaging specifications (Units: mm)