

SPECIFICATIONS

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ITEM : LED Lamp

MODEL: SL5-RV501T

- Contents -

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Drawn by	Checked by	Approved by

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SL5-RV501□ SERIES

Φ 5mm CYLINDER TYPE

LED LAMPS

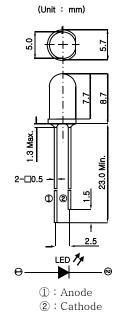
FEATURES

- ▶ Indicator lamps
- ▶ Ф 5mm all epoxy resin mold type
- ► Cylinder type LED lamps
- ▶ Ultra luminous intensity

DEVICES

Madal Na	Radiation	Lens Type			
Model No.	Color	Epoxy Color	Diffusion		
SL5-RV501T Red		Colorless	Transparency		
Material : InGaAIP/GaAs					

■ PACKAGE DIMENSIONS



Unspecified Tolerance : \pm 0.2mm

■ ABSOLUTE MAXIMUM RATINGS

(Ta = 25℃)

Parameter	Symbol	Value	Unit
Power Dissipation	P_d	72	mW
Continuous Forward Current	I _F	30	mA
Peak Forward Current*1	I _{FM}	50	mA
Derating Factor(DC)	-	0.37	mA/℃
Reverse Voltage	V_R	5	V
Operating Temperature	T _{opr}	- 30 to +85	${\mathbb C}$
Storage Temperature	T _{stg}	- 40 to + 100	$^{\circ}$
Soldering Temperature*2	T _{sol}	260(within 3 seconds)	$^{\circ}$

 $^{^{*1}}$ Duty ratio = 1/10, Pulse width = 0.1ms

^{*2} Soldering part of lead: up to 2mm from the body of the device



LED LAMPS SL5-RV501T

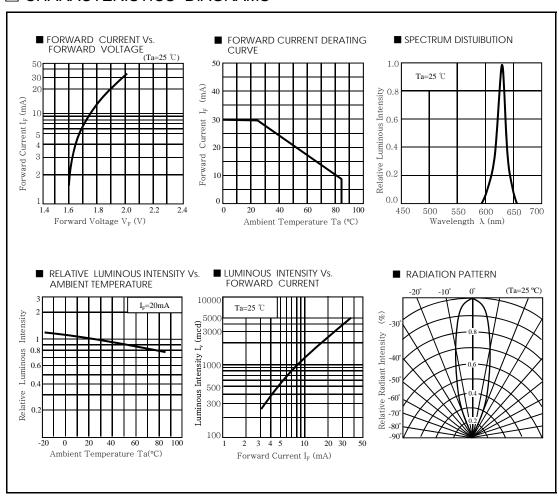
■ ELECTRO-OPTICAL CHARACTERISTICS

(Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Forward Voltage	V_{F}		1.9	2.4	V	I _F =20mA
Reverse Current	I _R			10	μA	V _R =5V
Luminous Intensity*3	I _V	1500	2500		mcd	I _F =20mA
Intensity Angle	20 1/2		28		deg.	I _F =20mA
Peak Wavelength	λP		628		nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ		15		nm	I _F =20mA
Terminal Capacitance	C _t				pF	V=0V, f=1MHz

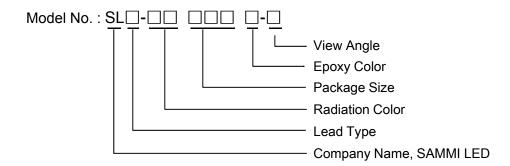
 $^{^{*3}}$ Tolerance : \pm 30%

■ CHARACTERISTICS DIAGRAMS





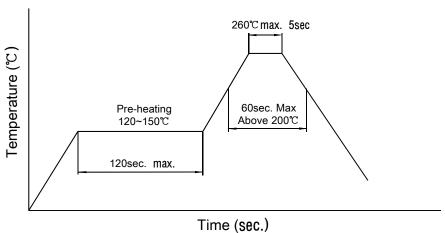
MODEL NUMBER DESCRIPTION



PACKING & DESCRIPTION

- 1. Inner packing: packing the vinyl pack unit at 500 pcs, and then packing inner paper box unit at 3 vinyl packs(1500 pcs)
- 2. Description on the paper box
 - 1 Model
- ②Lot No.
- 3 Quantity

■ SOLDER CONDITIONS



- 1. Preliminary heating to be at 150°C max. for 120sec max.
- 2. Soldering heat to be at 260°C max for 3sec.



LED LAMPS

PRECAUTION FOR USE

- 1. Avoid bending the Lead by constraint.
- 2. Do not soldering in condition with force to stress on the Lead.
- 3. Soldering flux does not contain chlorine elements against rust, and consider whether it need to be cleaning.
- 4. Avoid cleaning with the whole LED Lamp.
- 5. Use the methyl alcohol for cleaning the part of Flux soldering
 - Temperature : below 45 °C
 - Cleaning time: within 30 sec.
- 6. Use it within 1 week after the pack was opened.

7. Storage Instructions

- 7-1. It is recommend to store the products in dried spot and avoid the low-temperature or high-temperature.
- 7-2. It is recommend to avoid the spots with gas or winds affected with rust on Lead.
- 7-3. It is recommend to avoid the direct rays of the sun.
- 7-4. It is recommend to do not press or enforce to change quality and variation on products.

8. Static Electricity

- 8-1. The LEDs static electricity and surge voltage damage. So it is recommended that a wrist band or anti-electro-static glove be used when handing the LEDs.
- 8-2. All devices, equipment and machinery must be properly grounded. It is recommended that measures be taken against surge voltage to the equipment that mounts the LEDs.
- 8-3. When inspecting the final products in which LEDs were assembled, it is recommended to check whether the assembled LEDs are damaged by static electricity or not. It is easy to find static-damaged LEDs by a light-on test or a VF test at a lower current.

9. Others

- Regarding the detail or other questions, please contact Quality Control Management Department.



LED LAMPS

■ RELIABILITY TEST

1. Results of Reliability Test

Test Item	Test Condition	Note	Number of Damaged
Life Test	Ta=25°C, I _F =20mA	1000hrs	0/20
High Temperature Operating	Ta=85°C, I _F =5mA	1000hrs	0/20
Low Temperature Operating	erating Ta=-30°C, I _F =20mA		0/20
Thermal Shock	Ta= -30°C ~ 85°C 15sec 15sec	100 Cycle	0/20
High Temperature Storage	Ta=100°C	1000hrs	0/20
Low Temperature Storage	Ta=-40°C	1000hrs	0/20
Temperature Humidity Operating	midity Operating Ta=85°C, RH=85%		0/20
Solder Heat	Ta= 260°C, 3sec.	1000hrs	0/20

2. Criteria for Judging the Damage

Item	Cymbol	Toot Condition	Limit		
item	Symbol	Test Condition	Min.	Max.	
Forward Voltage	V _F	I _F =20mA		U.S.L×1.1	
Reverse Current	I _R	V _R =5V		U.S.L×2.0	
Luminous Intensity	lv	I _F =20mA	L.S.L×0.7		

Notes 1. U.S.L: Upper Standard Level 2. L.S.L: Lower Standard Level

