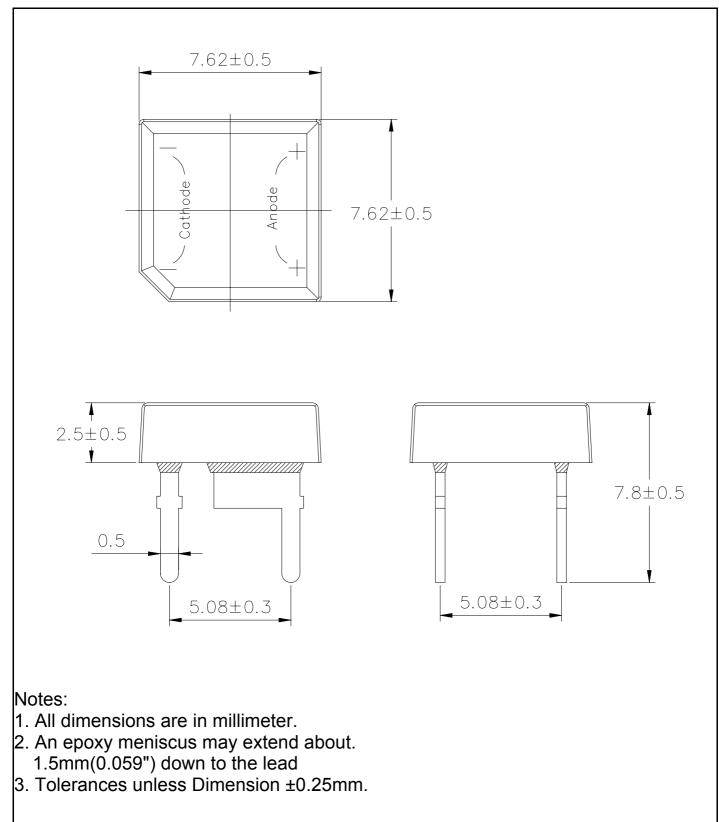
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Part No.	AL-00-2OR2CT-004	Diff No.004
	High Power	Type:LED Lamps

Package Dimension:



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Part No.	AL-00-20	DR2CT-004	Diff No.0	04	
	High	Power	Type:L	ED Lamps	
LED Parts P/N.		Chip		Lens Color	
		Material	Emitted Color	Lens Color	
AL-00-20R2	2CT-004	AlGaInP	Super Red	Water Clear	

■ Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Continuous Forward Current	I _F	60	mA
Operating Temperature	Topr	-30 to +80	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Electrostatic Discharge	ESD	1000	V
Power Dissipation	P _D	360	mW
Peak Forward Current (Duty 1/10@1KHz)	I _F (Peak)	200	mA
Reverse Voltage	V _R	5	V

Electronic Optical Characteristics :

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition	
Luminous Intensity	Iv	900	1500	/	mcd	I _F =60mA	
Viewing Angle	2 <i>θ</i> 1/2	/	130	/	deg	I _F =60mA	
Peak Wavelength	λρ	/	630	/	nm	I _F =60mA	
Dominant Wavelength	λd	620	625	630	nm	I _F =60mA	
Spectrum Radiation Bandwidth	$\triangle \lambda$	/	30	/	nm	I _F =60mA	
Forward Voltage	V _F	1.8	2.25	2.7	V	I _F =60mA	
Reverse Current	I _R	/	/	10	μA	V _R =5V	

Part No. AL-00-20R2CT-004 Diff No.004

High Power

Type: LED Lamps

Reliability test items and conditions :

The reliability of products shall be satisfied with items listed below. Confidence level: 90%

LTPD: 10%

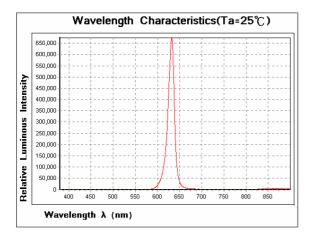
NO	ITEM	ITEM Test Conditions		Sample Q'ty	Ac/Re
1	Solder Heat	Temp ∶260°C±5°C	5 sec	80 pcs	0/1
		H:+85℃ 30min			
2	Temperature Cycle	≀ 5min	100 cycles	80 pcs	0/1
		L:-40°C 30min			
		H:+100°C 5min			
3	Thermal Shock	≀ 10sec	100 cycles	80 pcs	0/1
		L∶-10℃ 5min			
4	High Temperature Storage	Ta=100℃	1000 hrs	80 pcs	0/1
5	Low Temperature Storage	Ta=-40°C	1000 hrs	80 pcs	0/1
6	DC Operating Life	Temp:25℃ I _F =20mA	1000 hrs	80 pcs	0/1
7	High Temperature / High Humidity	85℃/85%RH	1000 hrs	80 pcs	0/1

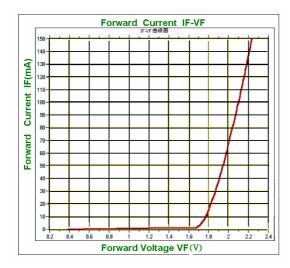
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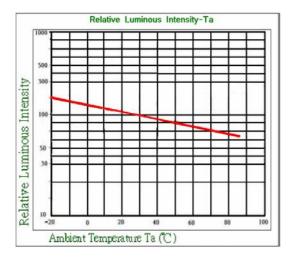
Part No.AL-00-2OR2CT-004Diff No.004High PowerType : LED Lamps

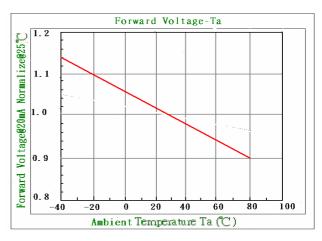
Typical electro-optical characteristics curves :

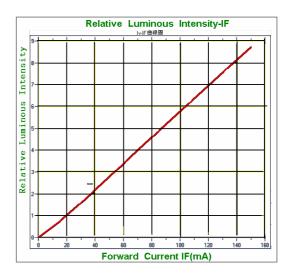
The data typical and the value is not guaranteed.

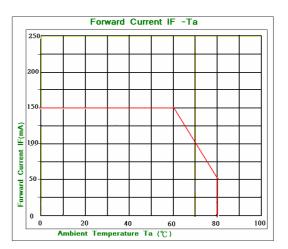












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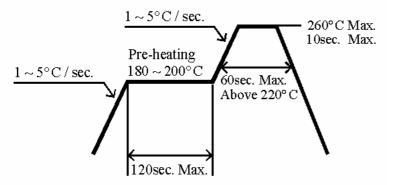
Part No.AL-00-2OR2CT-004Diff No.004High PowerType : LED Lamps

Precautions For Use

1. Over-current proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

- 2. Storage
 - 2.1 Do not open moisture proof bag before the products are ready to use.
 - 2.2 Before opening the package, the LEDs should be kept at 30°C or less and 90%RH or less.
 - 2.3 The LEDs should be used within a year.
 - 2.4 After opening the package, the LEDs should be kept at 30°C or less and 70%RH or less.
 - 2.5 The LEDs should be used within 168 hours (7 days) after opening the package.
 - 2.6 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions. Baking treatment : 60±5°C for 24 hours.
- 3. Soldering Condition
 - 3.1 Pb-free solder temperature profile



- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the LEDs during heating.
- 3.4 After soldering, do not warp the circuit board.
- 4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 280° C for 3 seconds within once in less than soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.