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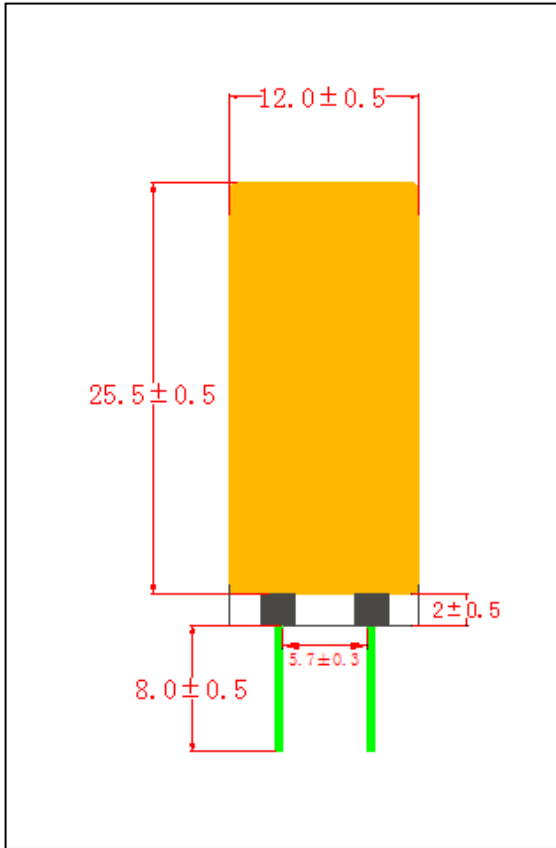
1. Description!6'P!ZQ\

1.1

!6'P 6^b•

TheWhiteLED whichwas fabricatedusing abluechipandthephosphor

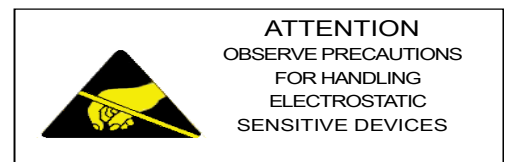
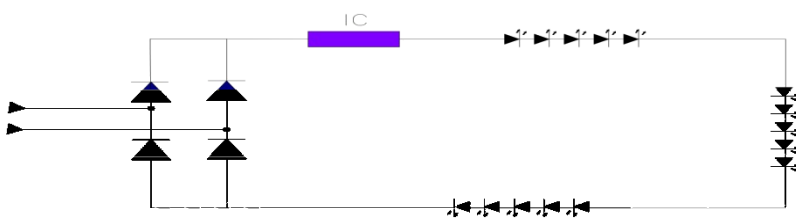
1.4 Package Dimension .[T.É.†



Front View



Reversed Drawing



Notes +—?w ö

2. The above forward voltage measurement allowance tolerance is $\pm 1V$.
3. The above color coordinates measurement allowance tolerance is 0.005.
4. The above luminous intensity measurement allowance tolerance $\pm 10\%$.
5. Care is to be taken that power dissipation does not exceed the absolute maximum rating of the product.
6. All measurements were made under the standardized environment of Us.
7. When the LEDs are in operation the maximum current should be decided after measuring the package temperature, junction temperature should not exceed the maximum rate.
8. ESD yield is over 90% at 2000V ESD (HBM). ESD protection during products handling is needed.
9. The filament is a non-spectroscopic product, and the commitment baTDh meets the optical/electrical parameter range of more than 90 %.

1.5 Bin Range Of Luminous Flux and The Chromaticity Diagram (IF=15 mA)

Table 1-3

RF-G9CW2C1J-TD 2200K	Rank430		RF-G9CW2H1J-TD 2400K	Rank430	
	400	460		400	460
RF-G9CW2R1J-TD 2700K	Rank480		RF-G9CW2K1J-TD 2700K	Rank480	
	450	510		450	510
RF-G9CW3E1J-TD 3000K	Rank490		RF-G9CW3S1J-TD 3000K	Rank490	
	460	520		460	520
RF-G9CW4E1J-TD 4000K	Rank500		RF-G9CW4S1J-TD 4000K	Rank500	
	470	530		470	530

RF-G9CW5E1J-TD 5000K	Rank500		RF-G9CW5S1J-TD 5000K	Rank500	
	470	530		470	530
RF-G9CW6E1J-TD 6500K	Rank500		RF-G9CW6S1J-TD 6500K	Rank500	
	470	530		470	530

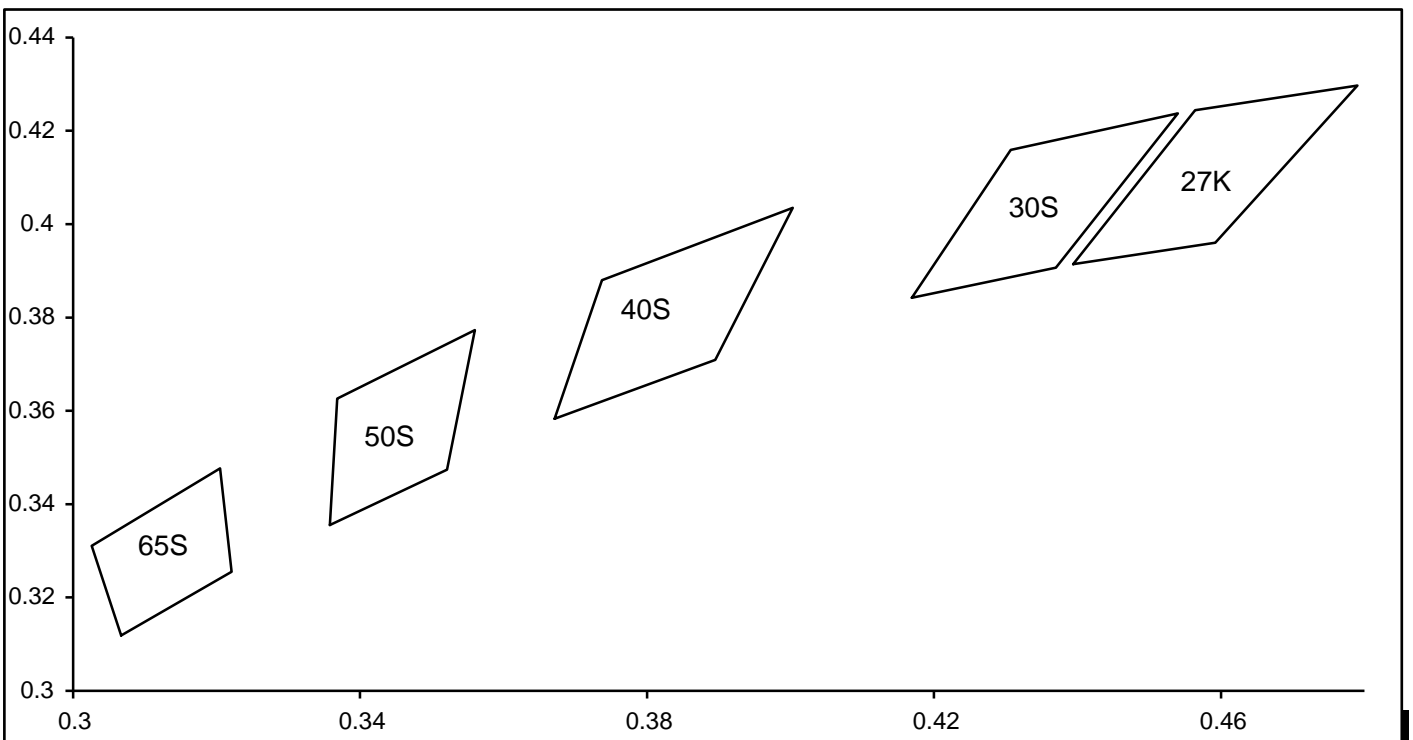
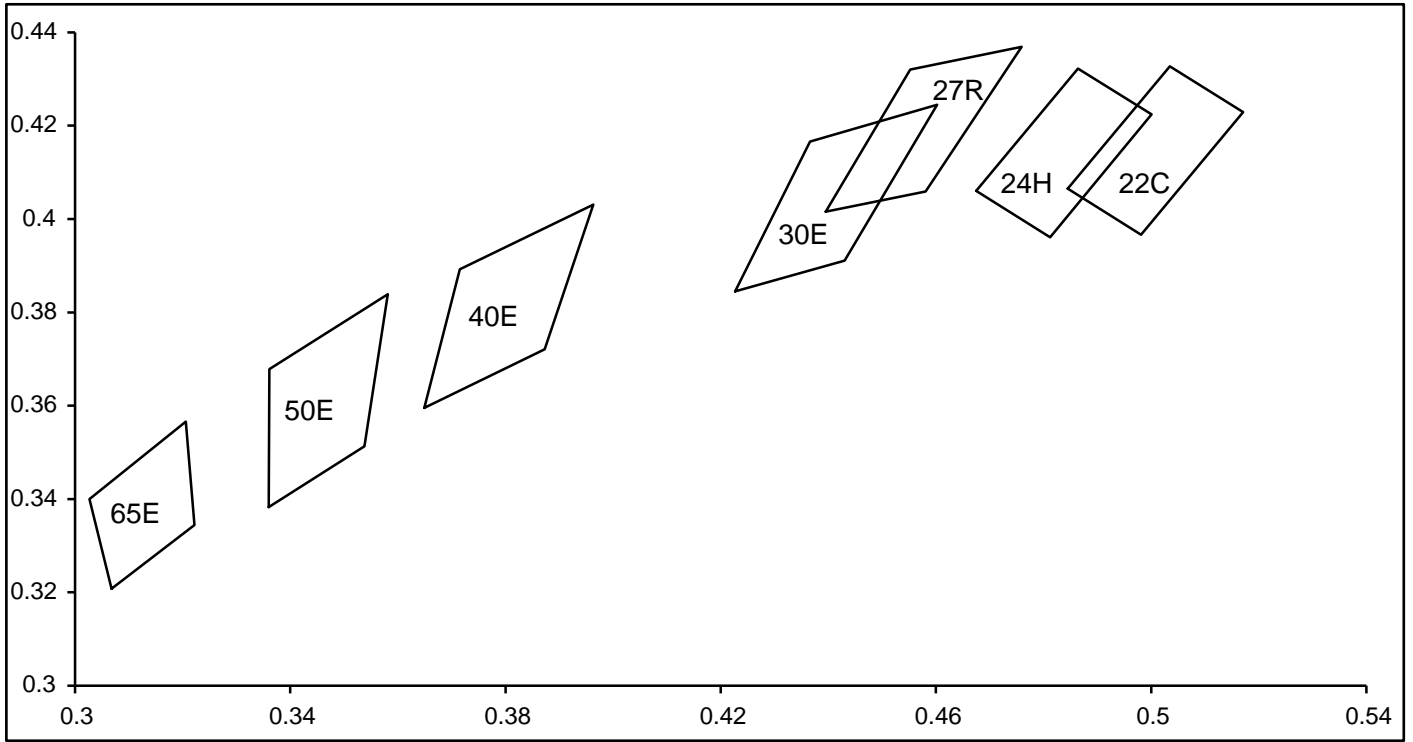
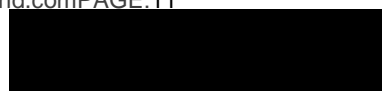


Fig 1-5 Central surface temperature VsForward Current



2.3 Cardboard Box %"[TQGN@

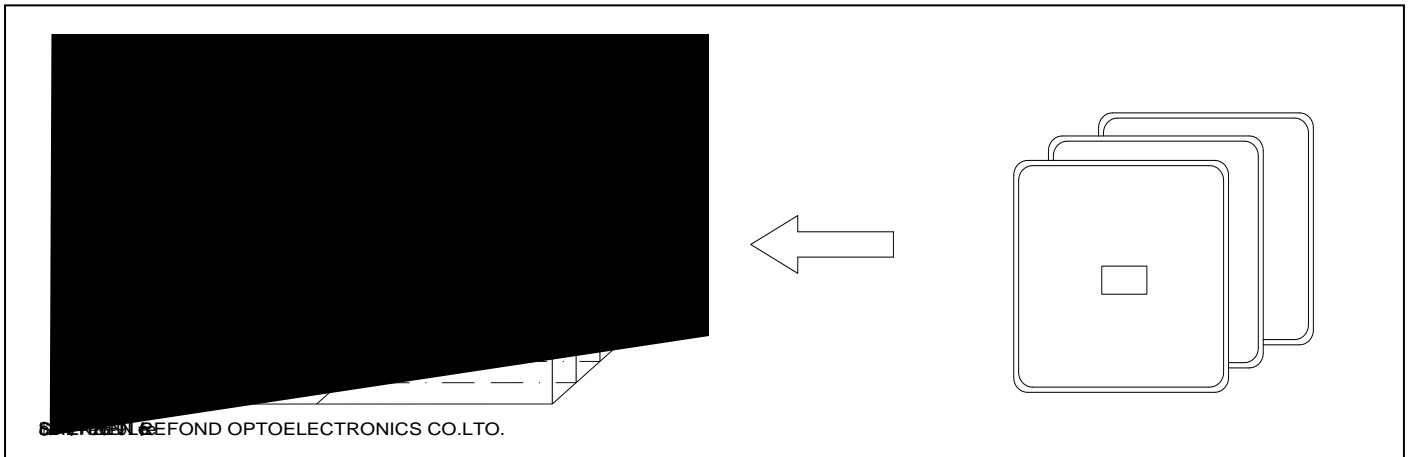


Fig.2-4Cardboard Box %"[TQGN@

2.4 Reliability Test Items And Conditions "p_â2¶?Ú^dk l}&Y9đ!...

Table 2-3 Reliability Test Items And Conditions "p_â2¶?Ú^dk l}&Y9đ!...

TestItems k l}	Ref.Standard &QR':-\$U	Test Condition ?Ú^d9đ!...	Time 8...hf	Quantity 7yd^	Ac/Re 647Å5a7Å
Thermal Shock \$FC A\$Š	JEITAED-4701 300307	-40 15min 10s 100 15min	1000cycle	10pcs.	0/1
SwiTDhing Test 1•\$?Ú^d	/	25 , On 2.5min Off 2.5min	2500cycle	10pcs.	0/1

Life Test 0Ç@,b©GÄ	JESD22-A108	Ta=25 AC=230v	1000hrs.	10pcs.	0/1
High Temperature High Humidity Life Test mg@,mgA b©GÄ	JESD22-A101	60 / 90%RH AC=230v	500hrs.	10pcs.	0/1

2.5 Criteria For Judging Damage +À7x\$³.):-\$U

Table 2-4 Criteria For Judging Damage +À7x\$³.):-\$U

Test Items k l}	Symbol Mµ&†	Test Condition ?Ú^d9đ!...	Criteria For Judgement \$³.):-\$U	
			Min. 9•ž	Max. 9•+¶
Power	W	AC=230v	L.S.L*)x0.90	U.S.L*)x1.1
Luminous Flux		AC=230v	L.S.L*)x0.7	-

Notes +—?w ö

1.U.S.L: Upper standard level \S:Ë™hß L.S.L: Lower standard level \S:Ë šhß

2.The Reliability tests are based on Us existing test platform. "p_â2¶?Ú^d*%o! 4 !{F?9~I ?Ú^d1 &• í

3.The technical information shown in the data sheets are limited to the typical characteristics and circuit examples of the referenced products. It does not constitute the warranting of industrial property nor the granting of any license. It™5 9³/47ÿ5ý!T É!6'PI \$ * "Ë è&y!ë É&QR' è œ!ë É!Š!ä1#G-9đ!...&Y1#G-8H1žI "l'P í

3. Handling Precautions !6'P" G-?w3ž! k

3.1 Handling Precautions

(1) LED operating environment and sulfur element composition cannot be over 100PPM in the LED mating usage material. This is provided for informational purposes only and is not a warranty or endorsement.

(2) In order to prevent external material from getting into the inside of LED, which may cause the malfunction of LED, the single content of Bromine element is required to be less than 900PPM, the single content of Chlorine element is required to be less than 900PPM, the total content of Bromine element and Chlorine element in the external materials of the application products is required to be less than 1500PPM. This is provided for informational purposes only and is not a warranty or endorsement.

(3) VOCs (Volatile organic compounds) emitted from materials used in the construction of fixtures can penetrate silicone encapsulants of LEDs and discolor when exposed to heat and photonic energy. The result can be a significant loss of light output from t

Fig 4-1 Clip filament specification +E&eBp -\SU'

(5) In designing a circuit, the current through each LED must not exceed the absolute maximum rating specified for each LED. In the meanwhile, resistors for protection should be applied, otherwise slight voltage shift will cause big current change, burn out may happen. The driving circuit must be designed to allow forward voltage only when it is ON or OFF. If the reverse voltage is applied to LED, migration can be generated resulting in LED damage.

(6) Thermal Design is paramount importance because heat generation may result in the Characteristics decline, such as brightness decreased, Color change and so on. Please consider the heat generation of the LEDs when making the system design.

(7) Compared to standard encapsulants, silicone is generally softer, and the surface is more likely to attract dust, requiring special care during processing. In cases where a minimal level of dirt and dust particles cannot be guaranteed, a suitable cleaning solution must be applied to the surface after the soldering of components. We suggest using isopropyl alcohol for cleaning. In case other solvents are used, it must be assured that these solvents do not dissolve the package or resin. Ultrasonic cleaning is not recommended. Ultrasonic cleaning may cause damage to the LED.

Table 4-1 Storage #7-ç



Conditions		Temperature	Humidity	Time
LVO		@,15	A 15	8...hf
Storage	Before Opening Aluminum Bag 5U%”\$Ü	730	775%	Within 1 Year From Date •1 \$
	After Opening Aluminum Bag 5U%”&•	730	760%	24hours 24.ž8...
Baking CgCs		60 s5	-	824hours +¶! 24.ž8...

(8) If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time , baking treatment should be performed after unpacking and based on the following condition (65±5) °C for above 24 hours., :+1 Dt\$Ñ4¥%”[T+À7x è4¥R”!6’P œMµ&—!t ™ 9~7x#7-ç9đ!... èi•5U%”&•bjZÛCgCs èCgCs9đ!... ös è+¶! .ž8... í

If the package is flatulence or damaged,please notify the sales staff to assist., :+%”[TSO>£4¥R”JÃ 5î è^†b©Jtg•½!l&ç%P%8+“F• í

(9)Similar to most Solid state devices; LEDs are sensitive to Electro-Static Discharge (ESD) and Electrical Over Stress (EOS). #^\$!el %Û.†!âGÄ-ß(÷!... •:Æ è .îèGÄbV?Đ\$ŠM ii0Ç7P3® èi• \ "é, hÁ53 í

(10) Other points for attention, please refer to our relevant information.\$. ?w3ž! k ^†&QCö4 !{I l†\$ _Ó8(í

