

Features

- Popular T-1 3/4package.
- High efficiency.
- General purpose leads.
- Selected minimum intensities.
- Available on tape and reel.
- The product itself will remain within RoHS compliant version..
- ESD-withstand voltage: up to 4K V

Descriptions

- The series is specially designed for applications requiring higher brightness.
- The LED lamps are available with different colors, intensities, epoxy colors, etc.

Applications

- Status indicators.
- Commercial use.
- Advertising Signs.
- Back lighting.

Device Selection Guide

	Cł	nip		Stopper	
LED Part No.	Material	Emitted Color	Lens Color		
7344/G2T3-AQTB/P	L. C. N	Gamma Carrow	Course Trees	Yes	
7344/G2T3-AQTB	InGaN	Super Green	Green Trans	No	

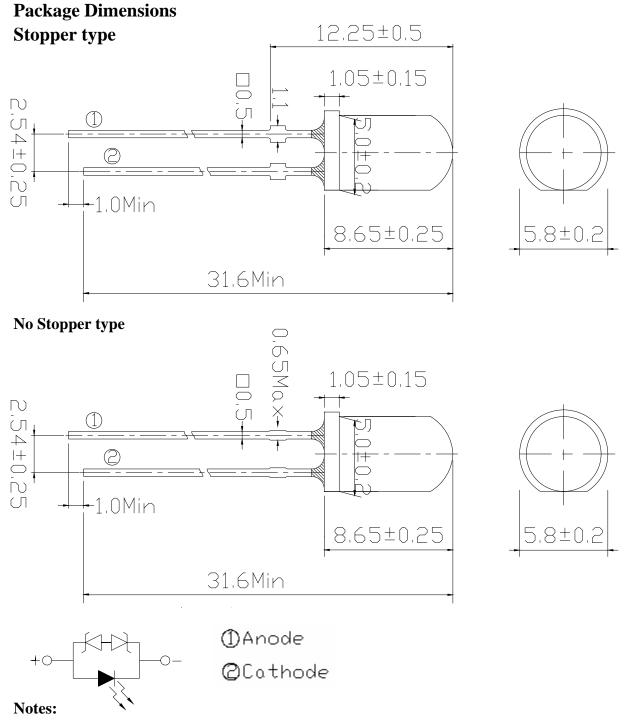
<u>7344/G2T3-AQTB/X</u>



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- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

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<u>7344/G2T3-AQTB/X</u>

Absolute Maximum Rating (T_a=25°C)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Current	I_{F}	25	mA
Pulse Forward Current (Duty1/10@ 1KHz)	I_{FP}	100	mA
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +100	°C
Reverse Voltage	V _R	5	V
Electrostatic Discharge	ESD	4K	V
Soldering Temperature	T _{sol}	260 ±5	°C
Power Dissipation	P _d	110	mW
Zener Reverse Current	Iz	100	mA

Notes: Soldering time \leq 5 seconds.

Electro-Optical Characteristics ($T_a=25^{\circ}C$)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Radiometric Intensity	Iv	3600	5650		mcd	
Viewing Angle	2 heta 1/2		30		deg	
Peak Wavelength	λp		518			1 20 4
Dominant Wavelength	λd		525		nm	I _F =20mA
Spectrum Half width	Δλ		35			
Forward Voltage	V _F			4.0	V	
Reverse Current	I _R			50	uA	V _R =5V
Zener Reverse Voltage	Vz	5.2			V	Iz=5mA

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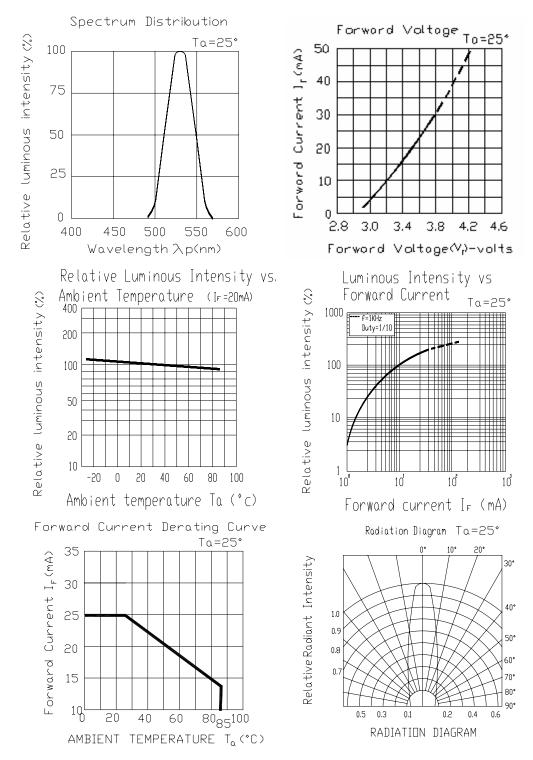
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Rank Combination (I _F =20mA)									
Rank	Q	Q R			S			Т	
Luminous Intensity	3600~4500	450	4500~5650		5650~7150		50	7150~9000	
*Measurement Uncertainty of Luminous Intensity: ±15%							Unit: :mcd		
Rank	В								
	1	2		3		4			5
Forward Voltage	3.0~3.2	3.2~3.4	3.2~3.4 3.4~		~3.6 3.6~3.8		.6~3.8		3.8~4.0
*Measurement Uncertainty of Forward Voltage: ±0.1V							Unit:V		
Rank	3			4		5			
Dominant Wavelength	520~524 524~528			·528		528~532			
*Measurement Uncertainty of Dominant Wavelength ±1.0nm							Unit:nm		

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Typical Electro-Optical Characteristics Curves

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Packing Quantity Specification

1.500 PCS/1Bag , 5Bags/1Box

2.10Boxes/1Carton

Label Form Specification

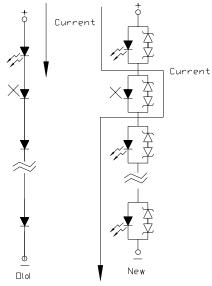
CPN: Customer's Production Number P/N : Production Number QTY: Packing Quantity CAT: Ranks of Luminous and Forward Voltage HUE: Ranks of Dominant Wavelength REF: Reference LOT No: Lot Number MADE IN TAIWAN: Production Place

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Notes

- 1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
- 2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
- 3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.
- 4. Below the zener reference voltage Vz, all the current flows through LED and as the voltage rises to Vz, the zener diode "breakdown." If the voltage tries to rise above Vz current flows through the zener branch to keep the voltage at exactly Vz.
- 5. When the LED is connected using serial circuit, if either piece of LED is no light up but current can't flow through causing others to light down. In new design, the LED is parallel with zener diode. if either piece of LED is no light up but current can flow through causing others to light up.



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6. Soldering Condition

Careful attention should be paid during soldering. When soldering, leave more then 3mm from solder joint to case, and soldering beyond the base of the tie bar is recommended.

Avoiding applying any stress to the lead frame while the LEDs are at high temperature particularly when soldering.

Recommended soldering conditions:

Hand	Soldering	DIP Soldering			
Temp. at tip of iron	400°C Max. (30W Max.)	Preheat temp.	100°C Max. (60 sec Max.)		
Soldering time	3 sec Max.	Bath temp.	265 Max.		
Distance	3mm Min.(From solder joint to case)	Bath time.	5 sec Max.		
		Distance	3mm Min.		

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