

7344/G2T3-AQTB/X

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

- ·com.cn • 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.

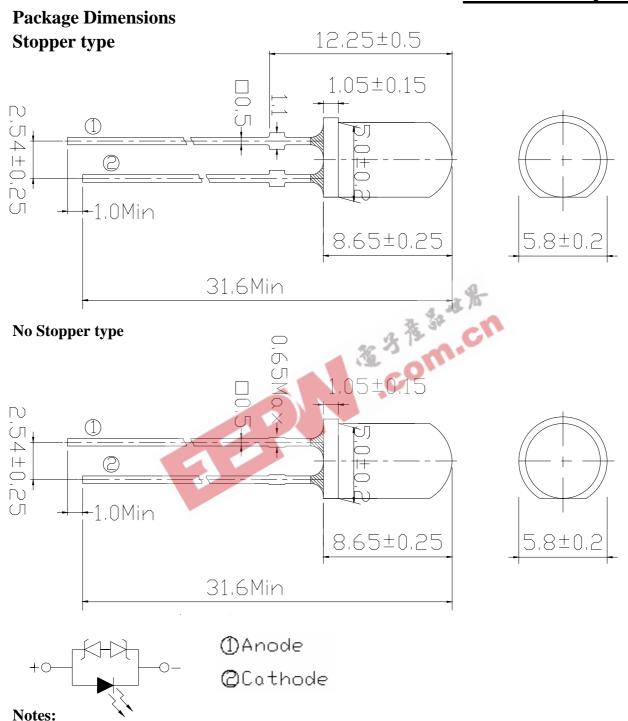
Device Selection Guide

LEDD AN	Cl	hip		g,	
LED Part No.	Material	Emitted Color	Lens Color	Stopper	
7344/G2T3-AQTB/P	LCN			Yes	
7344/G2T3-AQTB	InGaN	Super Green	Green Trans	No	

Everlight Electronics Co., Ltd. http\\:www.everlight.com Rev 2 Page: 1 of 8 Device Number: DLE-734-095 Prepared date: 11-08-2005 Prepared by: Flourix Chen



7344/G2T3-AQTB/X



- 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.

Everlight Electronics Co., Ltd. Device Number: DLE-734-095 $http \verb|\| : www.everlight.com|\\$

Rev 2

Page: 2 of 8

Prepared date: 11-08-2005 Prepared by: Flourix Chen



7344/G2T3-AQTB/X

Absolute Maximum Rating (Ta=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	$^{\circ}\! C$
Storage Temperature	T_{stg}	-40 ~ +100	$^{\circ}\!\mathbb{C}$
Reverse Voltage	V_R	5	V
Electrostatic Discharge	ESD	4K	V
Soldering Temperature	$T_{\rm sol}$	260 ±5	$^{\circ}\!\mathbb{C}$
Power Dissipation	P _d	110	mW
Zener Reverse Current	Iz	100	mA

Zenei Reverse Current			12 100		1117 \$		
Notes: Soldering time ≤ 5 seconds. Electro-Optical Characteristics (T _a =25°C)							
Electro-Optical Cha	racteristic	$cs(T_a=2)$	5 (7) (2)	L	28.		
Parameter	Symbol	Min.		yp.	Max.	Unit	Condition
Radiometric Intensity	I_{V}	3600	56	550		mcd	
Viewing Angle	$2 heta_{1/2}$		3	80		deg	
Peak Wavelength	λ_p		5	18			I -20m A
Dominant Wavelength	λ_d		52	25		nm	$I_F=20\text{mA}$
Spectrum Half width	Δλ		3	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

Everlight Electronics Co., Ltd. $http \verb|\| : www.everlight.com \\$ Rev 2 Page: 3 of 8 Device Number: DLE-734-095 Prepared date: 11-08-2005 Prepared by: Flourix Chen



7344/G2T3-AQTB/X

Rank Combination (I_F=20mA)

Rank	Q	R	S	Т
Luminous Intensity	3600~4500	4500~5650	5650~7150	7150~9000

^{*}Measurement Uncertainty of Luminous Intensity: ±15% Unit: :mcd

D. I	В					
Rank	1	2	3	4	5	
Forward Voltage	3.0~3.2	3.2~3.4	3.4~3.6	3.6~3.8	3.8~4.0	

^{*}Measurement Uncertainty of Forward Voltage: ±0.1V

Unit:V

Rank	3	4	5
Dominant Wavelength	520~524	524~528	528~532
*Measurement Uncertainty of	Unit:nm		

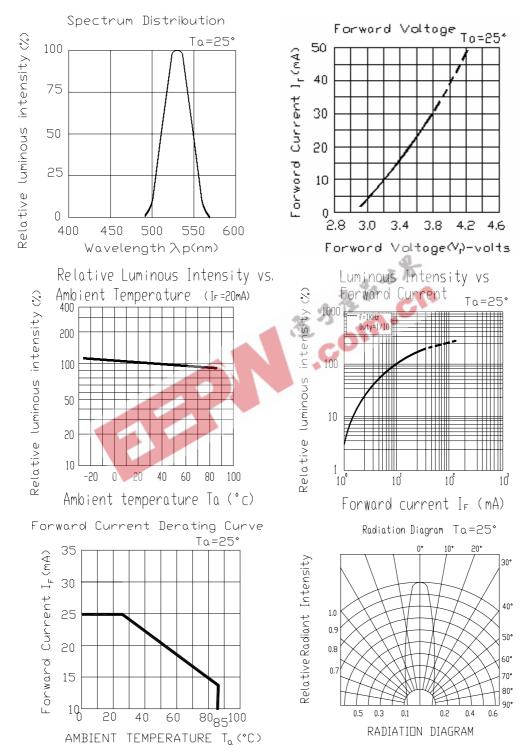
^{*}Measurement Uncertainty of Dominant Wavelength ±1.0nm

Everlight Electronics Co., Ltd. http\\:www.everlight.com Rev 2 Page: 4 of 8 Device Number: DLE-734-095 Prepared date: 11-08-2005 Prepared by: Flourix Chen



7344/G2T3-AQTB/X

Typical Electro-Optical Characteristics Curves



Everlight Electronics Co., Ltd. http\\:www.everlight.com Rev 2 Page: 5 of 8

Device Number: DLE-734-095 Prepared date: 11-08-2005 Prepared by: Flourix Chen



7344/G2T3-AQTB/X

Packing Quantity Specification

1.500PCS/1Bag , 5Bags/1Box

2.10Boxes/1Carton

Label Form Specification

EVERLIGHT

CPN:

P/N

7344/G2T3-AQTB/X

QTY:

CAT:

HUE:

LOT NO:

REF:

MADE IN TAIWAN

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

Everlight Electronics Co., Ltd. http\\:www.everlight.com Rev 2 Page: 6 of 8

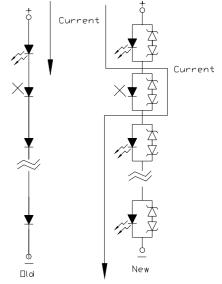
Device Number: DLE-734-095 Prepared date: 11-08-2005 Prepared by: Flourix Chen



7344/G2T3-AQTB/X

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.



Everlight Electronics Co., Ltd. http\\:www.everlight.com Rev 2 Page: 7 of 8

Device Number: DLE-734-095 Prepared date: 11-08-2005 Prepared by: Flourix Chen



7344/G2T3-AQTB/X

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	Bath time.	5 sec Max.			
	joint to case)		ه_			
		Distance	3mm Min.			
Distance 3mm Min.						

EVERLIGHT ELECTRONICS CO., LTD.

Office: No 25, Lane 76, Sec 3, Chung Yang Rd, Tucheng, Taipei 236, Taiwan, R.O.C

http:\\www.everlight.com

Tel: 886-2-2267-2000, 2267-9936

Fax: 886-2267-6244, 2267-6189, 2267-6306

Everlight Electronics Co., Ltd. http\\:www.everlight.com Rev 2 Page: 8 of 8

Device Number: DLE-734-095 Prepared date: 11-08-2005 Prepared by: Flourix Chen