

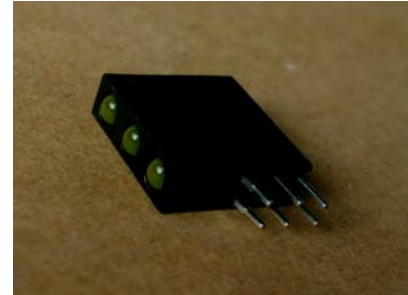
Technical Data Sheet

3.0mm Round Type LED Lamps

**A764B/3G**

■ Features :

- Low power consumption  
High efficiency and low cost
- Good control and free combinations  
on the colors of LED lamps
- Good lock and easy to assembly
- Stackable and easy to assembly
- Stackable vertically and easy to assembly
- Versatile mounting on P.C board or panel
- Stackable horizontally and easy to assembly
- Pb free



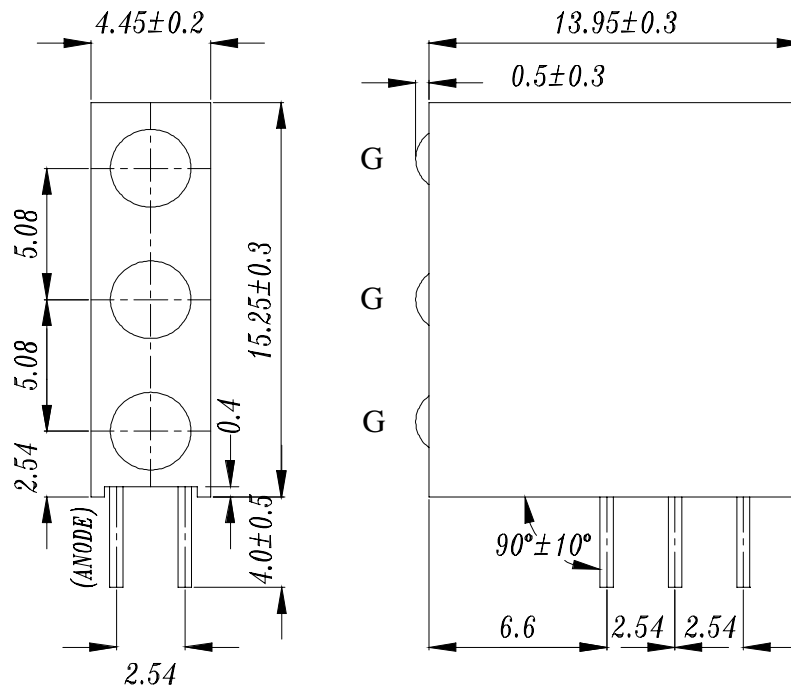
■ Descriptions :

- ARRAY=Plastic Holder+Combinations of Lamps
- The array will easily mount the applicable lamps on any panel up to

■ Applications :

- 1.Used as indicators of indicating the Degree, Functions, Positions etc, in electronic instruments.

PART NO.	Chip		Lens Color
	Material	Emitted Color	
234-10GD	GaP	Green	Green Diffused
234-10GD	GaP	Green	Green Diffused
234-10GD	GaP	Green	Green Diffused

**Technical Data Sheet**
**3.0mm Round Type LED Lamps**
**A764B/3G**
**Package Dimensions**


- Notes:** 1.All dimensions are in millimeters, tolerance is 0.25mm except being specified  
 2.Lead spacing is measured where the lead emerge from the package

**Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$** 

(G)

Parameter	Symbol	Rating	Unit
Forward Current	$I_F$	30	mA
Operating Temperature	$T_{opr}$	-40 to +85	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to +100	$^\circ\text{C}$
Soldering Temperature	$T_{sol}$	$260 \pm 5$	$^\circ\text{C}$
Power Dissipation	$P_d$	100	mW
Peak Forward Current	$I_F(\text{Peak})$	160	mA
Reverse Voltage	$V_R$	5	V

Note: \*1: $I_F$  Conditions --Pulse Width  $\leq 1\text{msec}$  and Duty  $\leq 1/10$ .

\*2:Soldering time  $\leq 5$  seconds.



## Technical Data Sheet

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**A764B/3G****Electro-Optical Characteristics (Ta=25°C)**

(G)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
	V <sub>F</sub>	I <sub>F</sub> = 20 mA	1.7	2.1	2.4	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5 V	/	/	10	μA
	I <sub>v</sub>	I <sub>F</sub> = 10 mA	2.5	10	/	mcd
Viewing Angle	2θ 1/2	I <sub>F</sub> = 20 mA	/	60	/	deg
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	/	565	/	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> = 20 mA	/	570	/	nm
Spectrum Radiation Bandwidth	Δλ	I <sub>F</sub> = 20 mA	/	30	/	nm

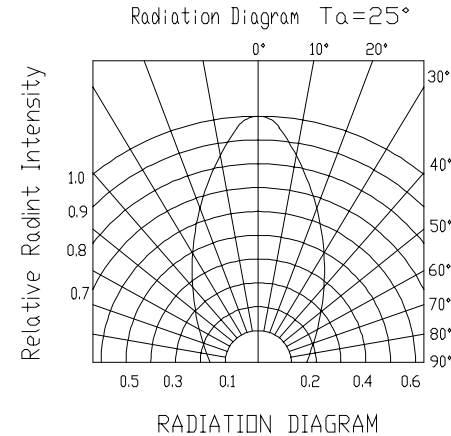
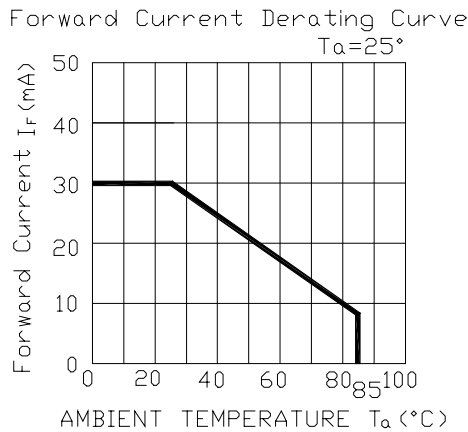
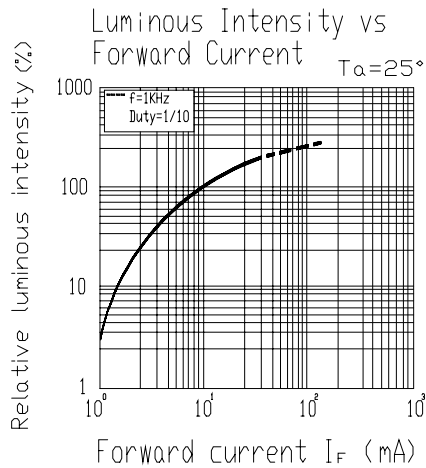
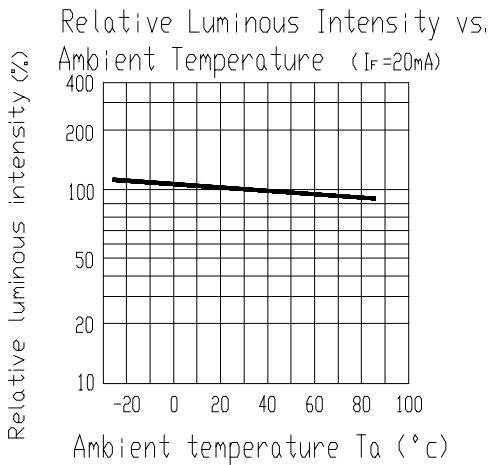
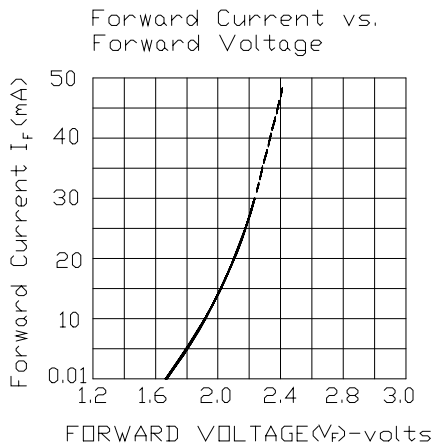
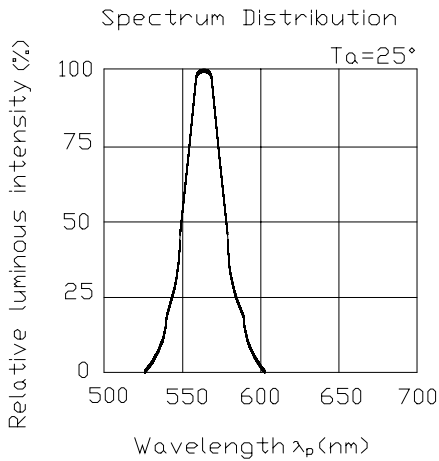
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**A764B/3G**

■ Typical Electro-Optical Characteristic Curves:

( G )





## Technical Data Sheet

## 3.0mm Round Type LED Lamps

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## ■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	10 SEC	76 PCS	0/1
2	Temperature Cycle	H : +100°C 15min § 5 min L : -40°C 15min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min § 10 sec L : -10°C 5min	300 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -40°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25°C IF = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C / 85% RH	1000 HRS	76 PCS	0/1



Technical Data Sheet

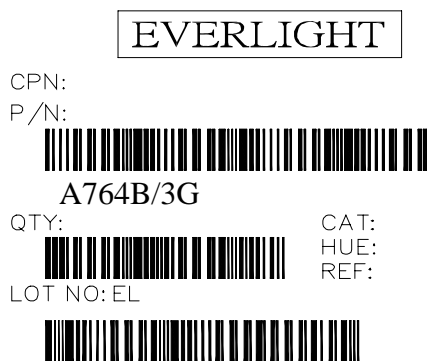
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**A764B/3G**

Packing Quantity Specification

- 1. 160PCS/1Plate , 4Plates/1Box
- 2. 10Boxes/1Carton

Label Form Specification



CPN: Customer' s Production Number  
P/N : Production Number  
QTY: Packing Quantity  
CAT: Ranks  
HUE: Peak Wavelength  
REF: Reference  
LOT No: Lot Number  
MADE IN TAIWAN: Production Place

MADE IN TAIWAN

Notes

- 1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
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