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SPECIFICATION

PART NO. : LT3KE3-3K-6UNL3-27Z

5.0 x 5.0 x 1.5mm SMD TYPE



Approved by

Checked by

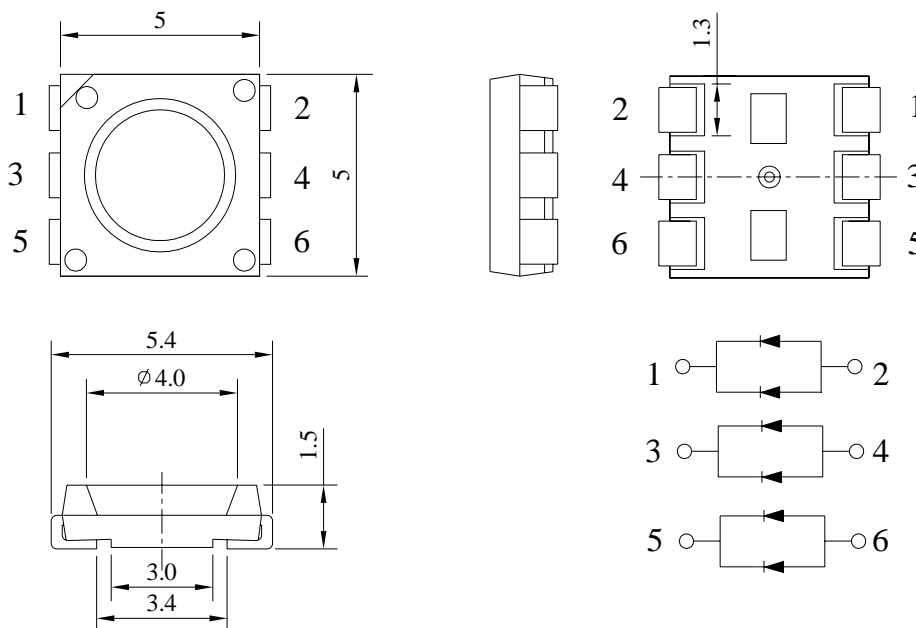
Prepared by

Tung

Lian

Karen

Package Dimensions



Notes:

- 1. All dimensions are in mm.
- 2. Tolerance is ± 0.25 mm unless otherwise noted.

Description

Part No.	LED Chip		Lens Color
	Material	Emitting Color	
LT3KE3-3K-6UNL3-27Z	InGaN/Sapphire	Warm White	Yellow Diffused



LT3KE3-3K-6UNL3-27Z

5.0 x 5.0 x 1.5mm
SMD TYPE**Absolute Maximum Ratings at Ta=25 °C**

Parameter	Symbol	Rating	Unit
Power Dissipation ★	P _D	120	mW
Reverse Voltage ★	V _R	5	V
D.C. Forward Current★	I _f	30	mA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.) ★	I _f (Peak)	100	mA
Operating Temperature Range	T _{opr.}	-40 to +100	°C
Storage Temperature Range	T _{stg.}	-40 to +100	°C
Soldering Temperature (1.6mm from body)	T _{slid.}	Dip Soldering: 260°C for 5 sec. Hand Soldering: 350°C for 3 sec.	
Electric Static Discharge Threshold (HBM) ★	ESD	6000	V

★ The value are based on 1 die performance.

Electrical and Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity ★2	I _v	I _f =40mA ★3	4800	10280		mcd
Luminous Flux ★2	Φ _v	I _f =40mA ★3		23200		mlm
Forward Voltage★3	V _f	I _f =40mA ★3		3.2	4.0	V
Correlated Colour Temperature★2	CCT	I _f =20mA ★1	25	2500	2600	K
			26	2600	2700	
			27	2700	2900	
Reverse Current ★1	I _r	V _r =5V★3			50	μA
Viewing Angle★2	2 θ 1/2	I _f =40mA ★3		120		deg

Notes: 1.The datas tested by IS tester.

2. Customer's special requirements are also welcome.

3. ★1 For each die

4. ★2 When all LED dies are operated simultaneously..

5. ★3 For one circuit

Typical Electrical/Optical Characteristic Curves

(25°C Ambient Temperature Unless Otherwise Noted)

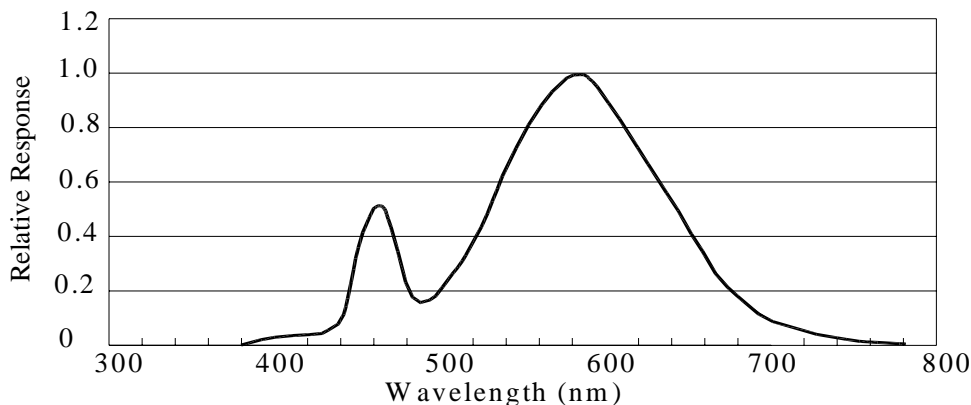
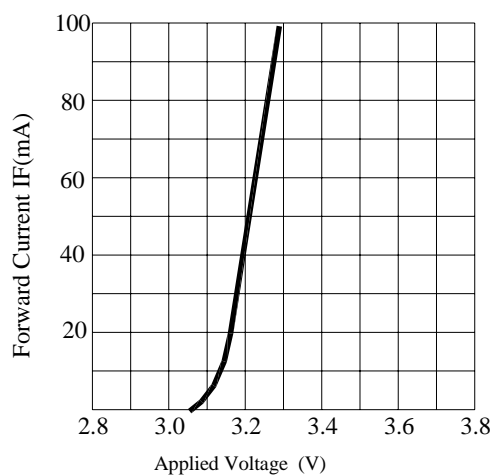
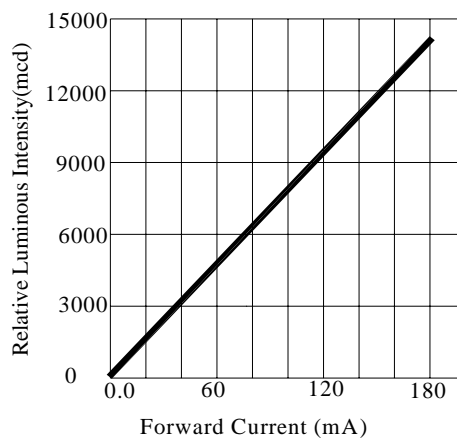


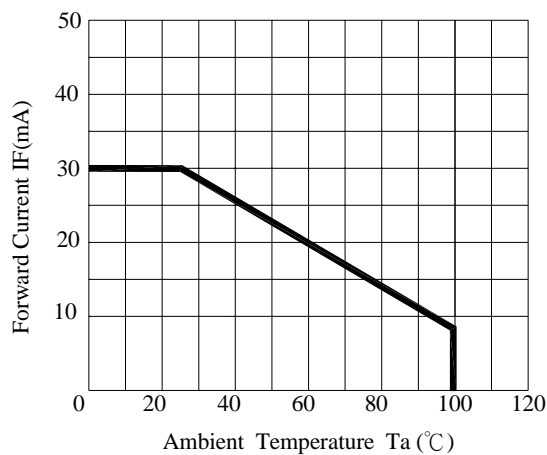
Fig.1 WHITE LED Spectrum VS. WAVELENGTH



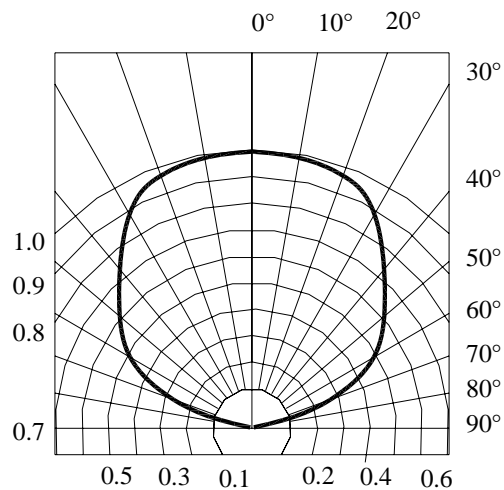
Forward Current VS. Applied Voltage



Forward Current VS. Luminous Intensity



Ambient Temperature VS. Forward Current



Radiation Diagram