

Specification for Approval

(Customer Name) : _____

(Product ID) : **IE-5E46Y13D-1B-Y04**

(Product Model) : _____

(Product Specifications) : **546 Oval Yellow Tinted Diffused LED**

(Date) : _____

(Customer acknowledges that)

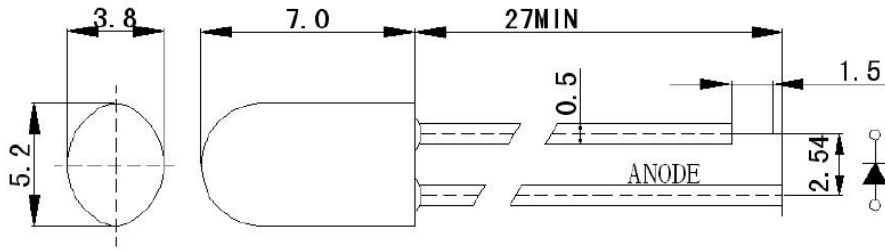
Approved	Audit	Confirm	Business	Engineering	Make

(Customer acknowledges that) : Qualified Failure

(Customer feedback) :

Product Model:

Dimensions: Unit: mm [inch]



UNIT : mm

(Notes:)

1. All dimension units are millimeters.
2. All dimension tolerance is ± 0.05 mm unless otherwise noted.
3. An epoxy meniscus may extend about 1.5mm down the leads

LED Chip		Lens Color
Material	Emitting Color	
InGaN	Yellow	Yellow Tinted Diffused

Product Mode I:
Absolute Maximum Ratings at (Ta = 25 °C)

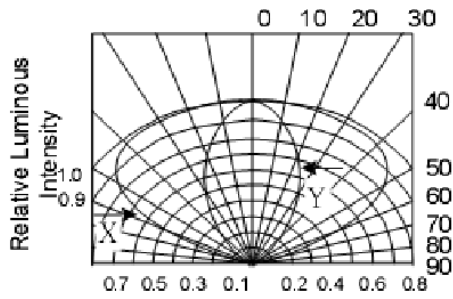
ITEMS	SYMBOL	ABSOLUTE MAXIMUM RATING	UNIT
Forward Current	IF	50	mA
Peak Forward Current	IFP	100	mA
Continuous Forward Current	IL	20	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	60	mW
Operation Temperature	Topr	-40 ~ +80	°C
Storage Temperature	Tstg	-40 ~ +80	°C
Lead Soldering Temperature	Tsol		

Typical Electrical & Optical Characteristics (Ta = 25 °C)

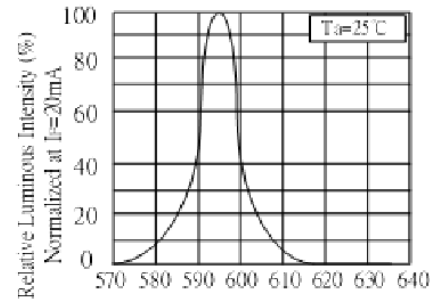
ITEMS	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	IF=20mA	1000	---	2000	mcd
Forward Voltage	IF	IF=20mA	2.0	---	2.5	V
Peak Wavelength	λP	IF=20mA	---	---	---	nm
Dominant Wavelength	λD	IF=20mA	585	---	595	nm
Viewing Angle	2θ1/2	IF=20mA	---	90° /50°	---	Deg
Luminous flux	Iv	IF=20mA	---	---	---	LM
Color Rendering Index Calculation	Spm	X	---	---	---	---
	Spm	Y	---	---	---	---
Color Temperature	TC	IF=20mA	---	---	---	K
Reverse Current	IR	---	---	10	μA	VR=5 V

Product Mode I:

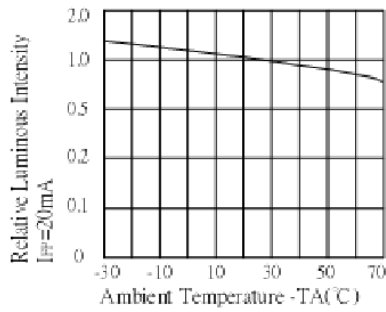
TYPICAL OPTICAL-ELECTRICAL CHARACTERISTIC CURVES



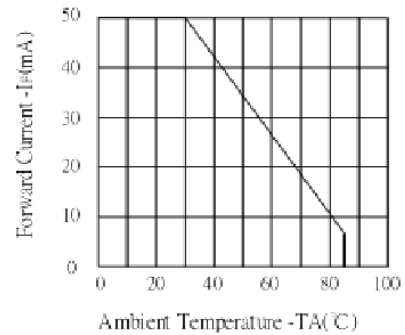
RADIATION DIAGRAM



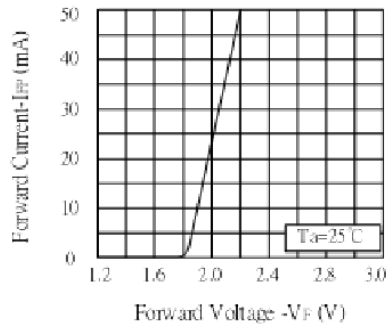
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



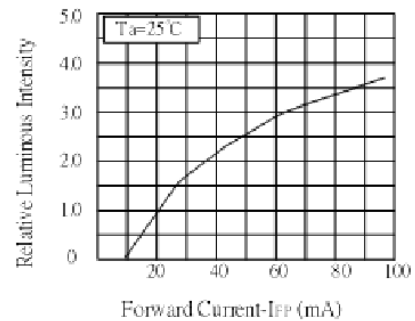
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT