VISIBLE LIGHT EMITTING DIODE

DATA SHEET

MODEL NO: GT3-5RY03W0615G

REV. : 2. 0

DATE : 11-MAY.-2009

■ DESCRIPTIONS:

- 3mm Round lamp
- Lens color: White Diffused
- Emitting Color: Red and Yellow
- No Stopper
- Dice Material: Red AlGaInP
  Yellow AlGaInP

■ APPLICATIONS:

- TV set
- Monitor
- Telephone
- Computer
- circuit board

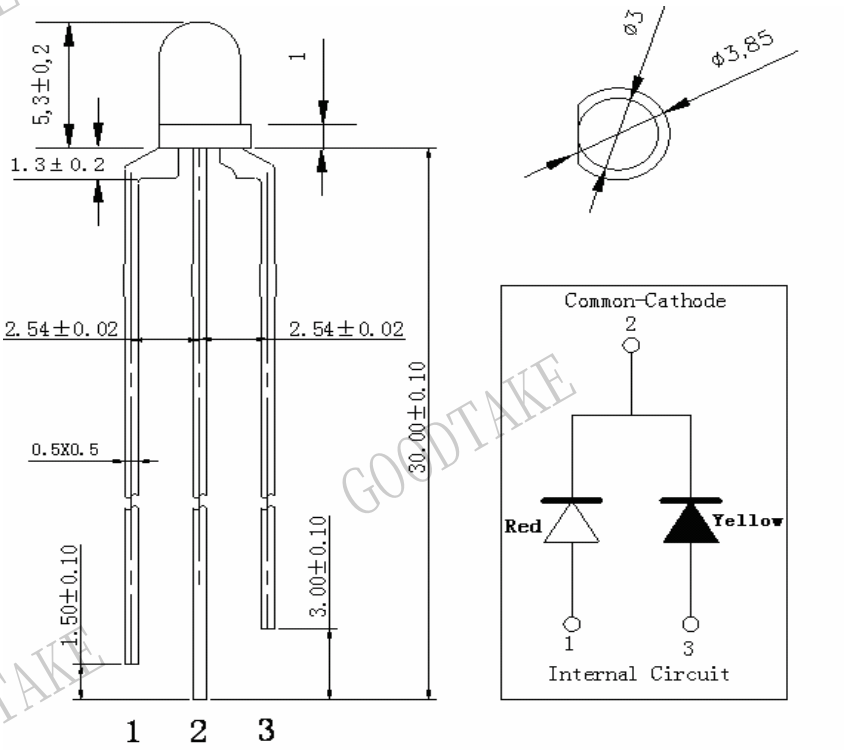
■ **ABSOLUTE MAXIMUM RATINGS (**Tamb=25,unless otherwise specified)

Parameter	Test condition	Symbol	Ratings	Unit
Forward Current		I_F	25	mA
Power Dissipation		PD	80	mW
Peak Forward Current	tp/T=0.1,tp=100μs	I_{FP}	100	mA
Reverse voltage		V_R	5	V
Operating Temperature		Topr	-40～+85	℃
Storage Temperature		Tstg	-40～+100	℃
Soldering Temperature		Tsol	260℃ for 5 sec Max (2mm from Body)	

Basic Characteristics(Tamb=25,unless otherwise specified)

Parameter	Symbol		Min.	Type	Max.	Unit	Test Condition
Forward Voltage	VF	Red		2.0	2.8	V	IF=20mA
		Yellow		2.1	2.5		
Luminous Intensity	Iv	Red	120	180	--	mcd	IF=20mA
		Yellow	190	260	--		
Reverse Current	IR				1	μA	VR=5V
Peak Wavelength	λp	Red		640	645	nm	IF=20mA
		Yellow		582	590		
Dominant Wavelength	λp		630			nm	IF=20mA
			565				
View Angle	2θ1/2	Red		50		deg	IF=20mA
		Yellow	°	50			

- **Dimensions:**



NOTE：1. All dimensions are in millimeter, tolerance is ±0.5unless otherwise noted.

2. Epoxy meniscus extends ≤1 mm down to the lead is allowed.

■ Typical electro-optical characteristics curves

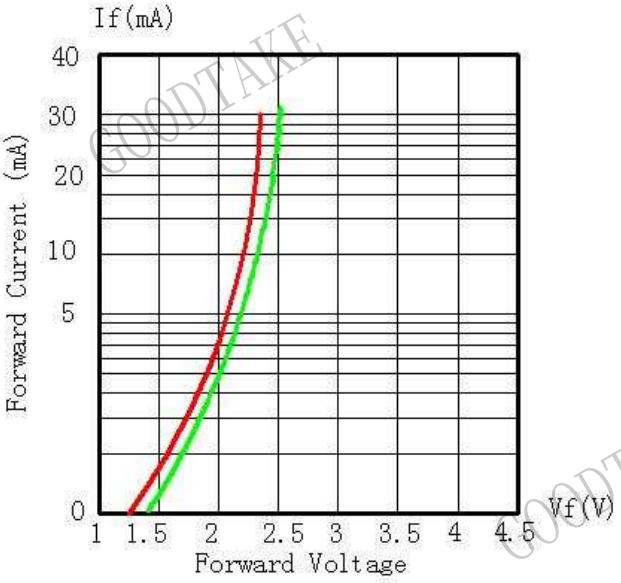


Fig.1 forward Current vs. Forward Voltage

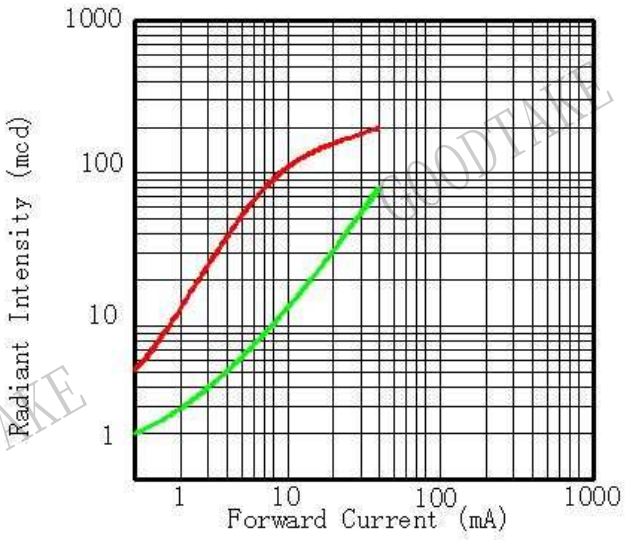


Fig.2 Forward Current Vs Radiant Intensity

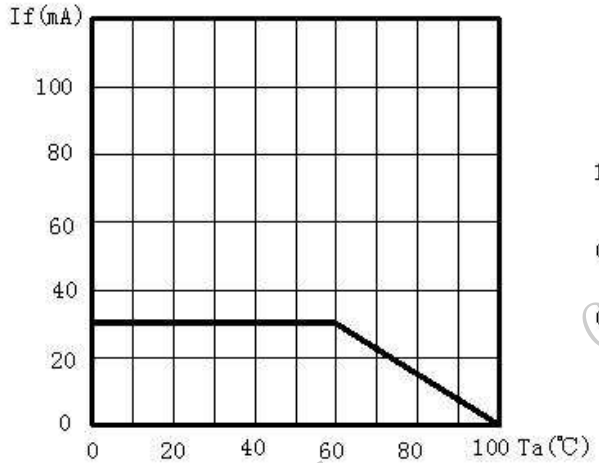


Fig.3Maximum Forward Current Vs Ambient Temperature

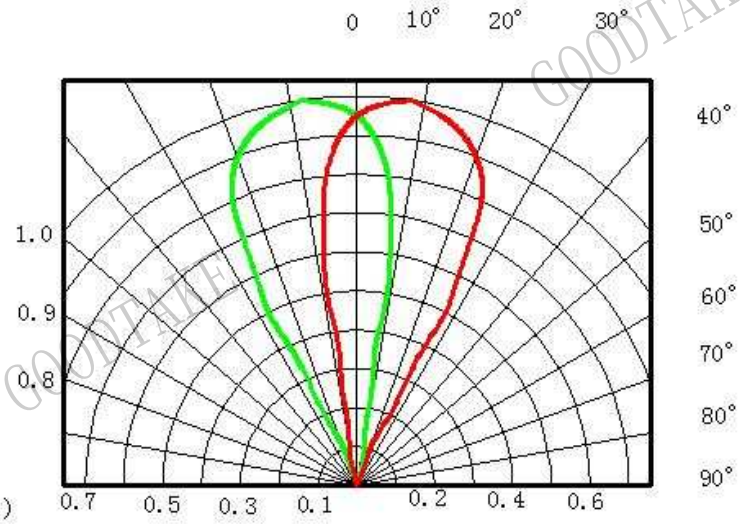


Fig.4 Angle Vs Radiant Intensity