

VISIBLE LIGHT EMITTING DIODE

DATA SHEET

MODEL NO: GT3A-5RB03W0117G

REV. : 2.0

DATE : 11-MAY.-2009

■ DESCRIPTIONS:

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



■ APPLICATIONS:

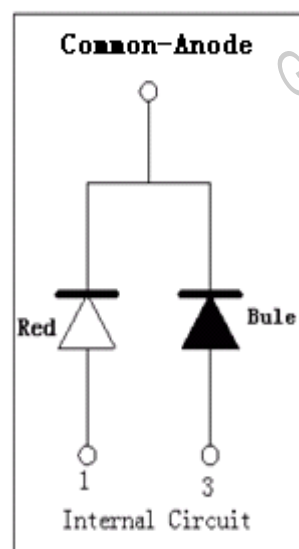
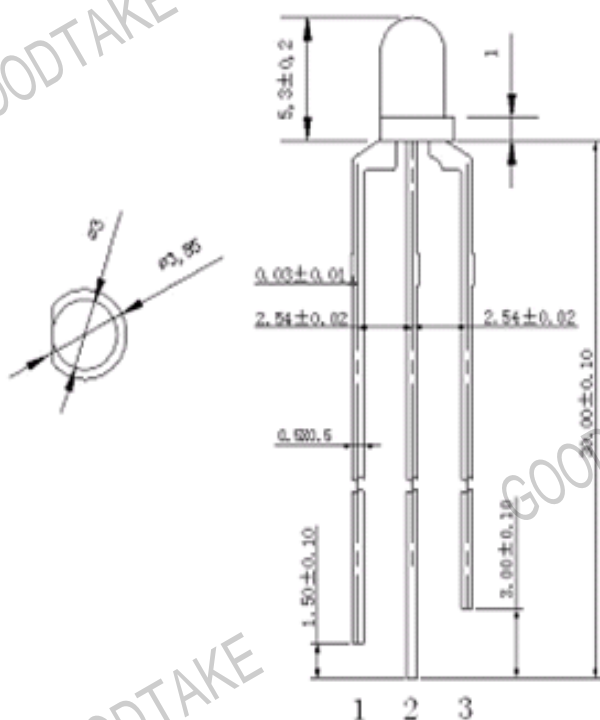
- TV set
- Monitor
- Telephone
- Computer
- circuit board

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

Parameter	Test condition	Symbol	Ratings	Unit
Forward Current		IF	30	mA
Power Dissipation		PD	100	mW
Peak Forward Current	tp/T=0.1, tp=100μs	IFP	150	mA
Reverse voltage		VR	5	V
Operating Temperature		Topr	-40~+85	°C
Storage Temperature		Tstg	-40~+100	°C
Soldering Temperature		Tsol	260°C 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		1.9	2.3	V	IF=20mA
		Blue		3.3	3.6		
Luminous Intensity	Iv	Red	300		700	mcd	IF=20mA
		Blue	700		1100		
Reverse Current	IR	---			80	μA	VR=5V
Peak Wavelength	λp	Red		640		nm	IF=20mA
		Blue		462			
Dominant Wavelength	λp	Red	630			nm	IF=20mA
		Blue	460				
View Angle	2θ1/2	Red		20		deg	IF=20mA
		Blue		20			



■ Typical electro-optical characteristics curves

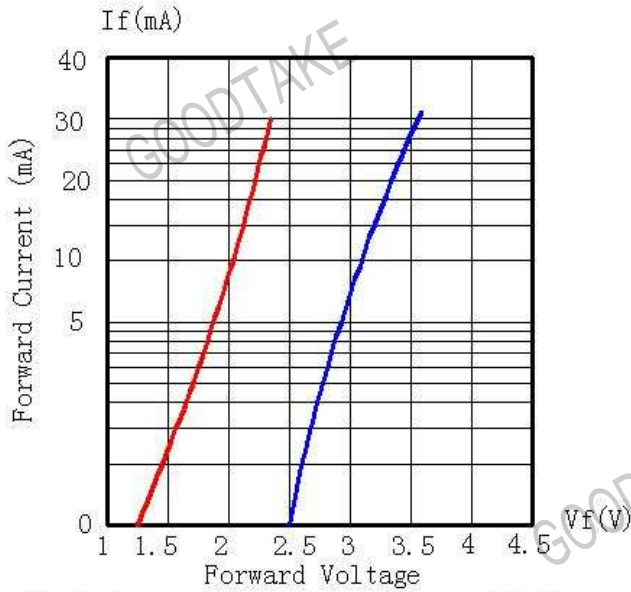


Fig.1 forward Current vs. Forward Voltage

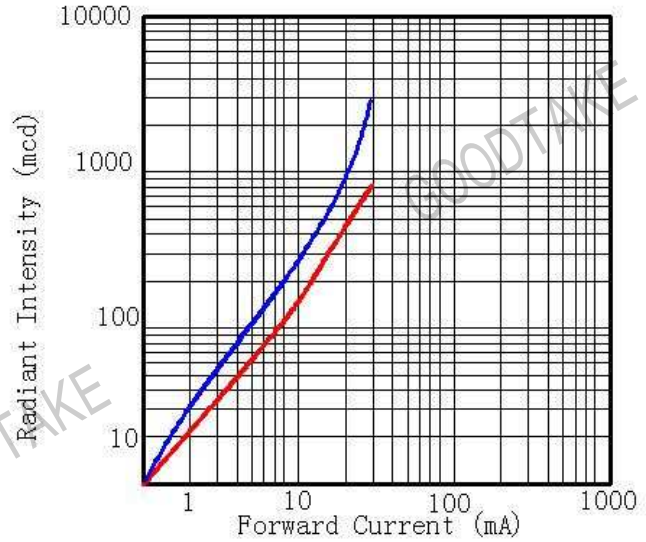


Fig.2 Forward Current Vs Radiant Intensity

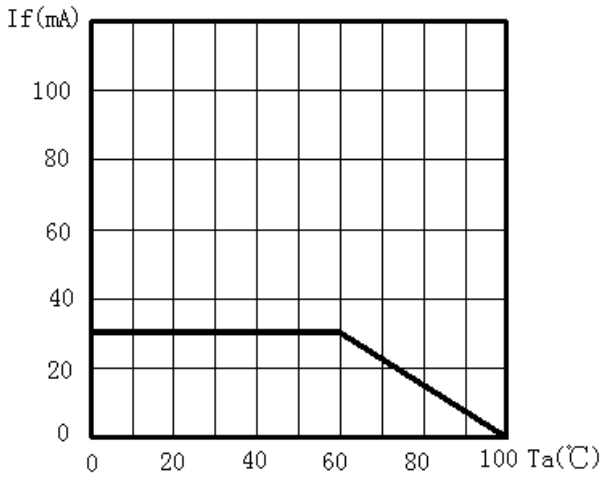


Fig.3 Maximum Forward Current Vs Ambient Temperature

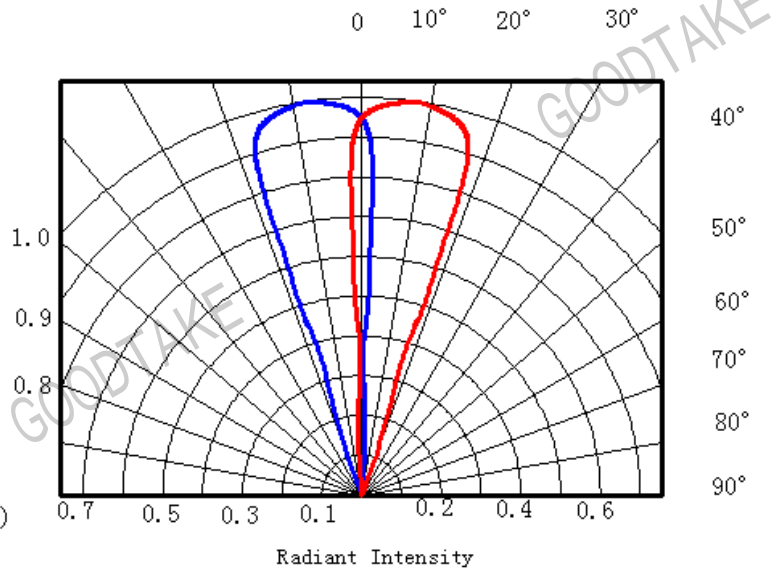


Fig.4 Angle Vs Radiant Intensity