OptoSupply
Light It Up

3mm Infrared LED

OSI5LA3D61A

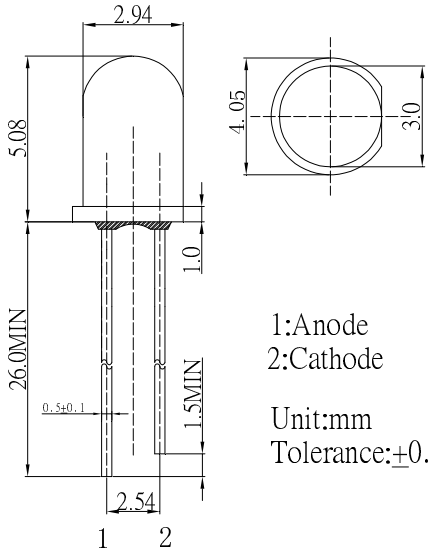
▪Features

- High Radiant Power LEDs
- 3mm Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Long Lifetime Operation
- Water Clear Type

▪Applications

- IrDA
- Encoder
- Data Communication

▪Outline Dimension



1:Anode
2:Cathode

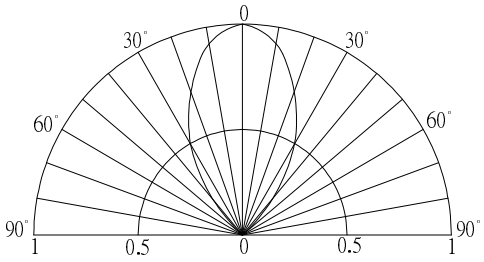
Unit:mm
Tolerance:±0.3mm

▪Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Current	I_F	100	mA
Pulse Forward Current*	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	180	mW
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40 ~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	-

*Pulse width Max.10ms Duty ratio max 1/10

▪Directivity



▪Electrical -Optical Characteristics (Ta=25℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F	I_F=20mA	-	1.2	1.4	V
DC Reverse Current	I_R	V_R=5V	-	-	10	μA
Peak Wavelength	λ_p	I_F=20mA	-	940	-	nm
Radiant Intensity	Ie	I_F=20mA	-	5	-	mW/Sr
50% Power Angle	$2\theta_{1/2}$	I_F=20mA	-	60	-	deg

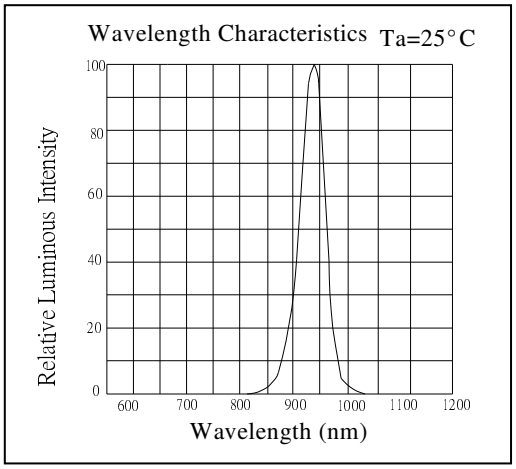
*1 Tolerance of Peak wavelength is ±1nm

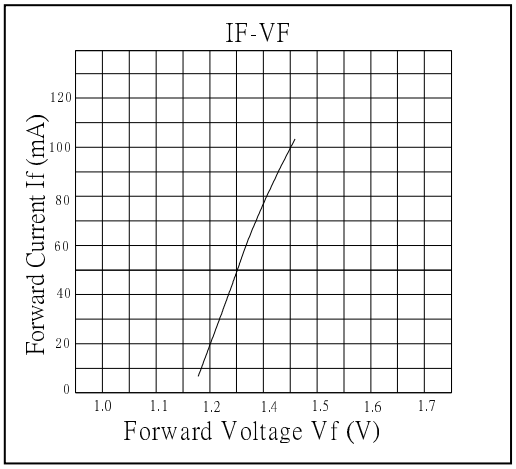
*2 Tolerance of Radiant Power is ±15%

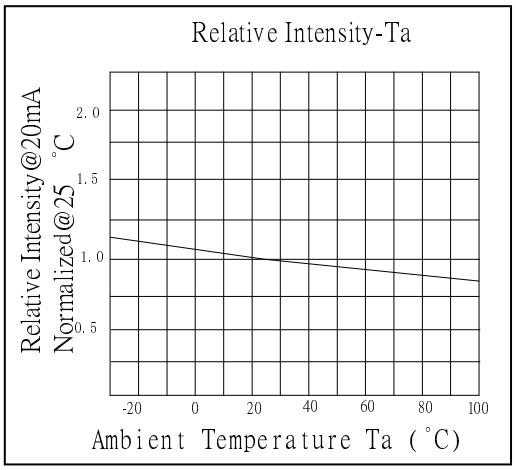
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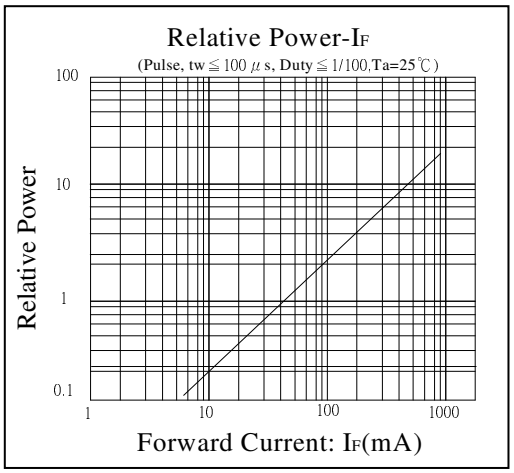
GaAlAs/GaAs LED

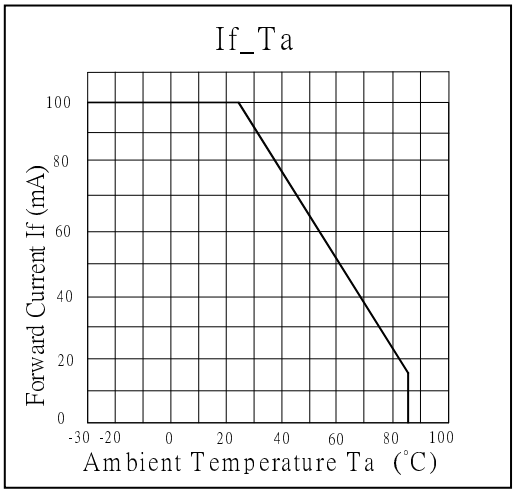
TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

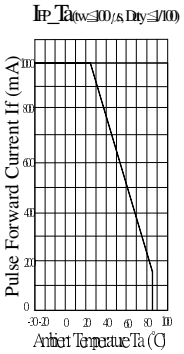






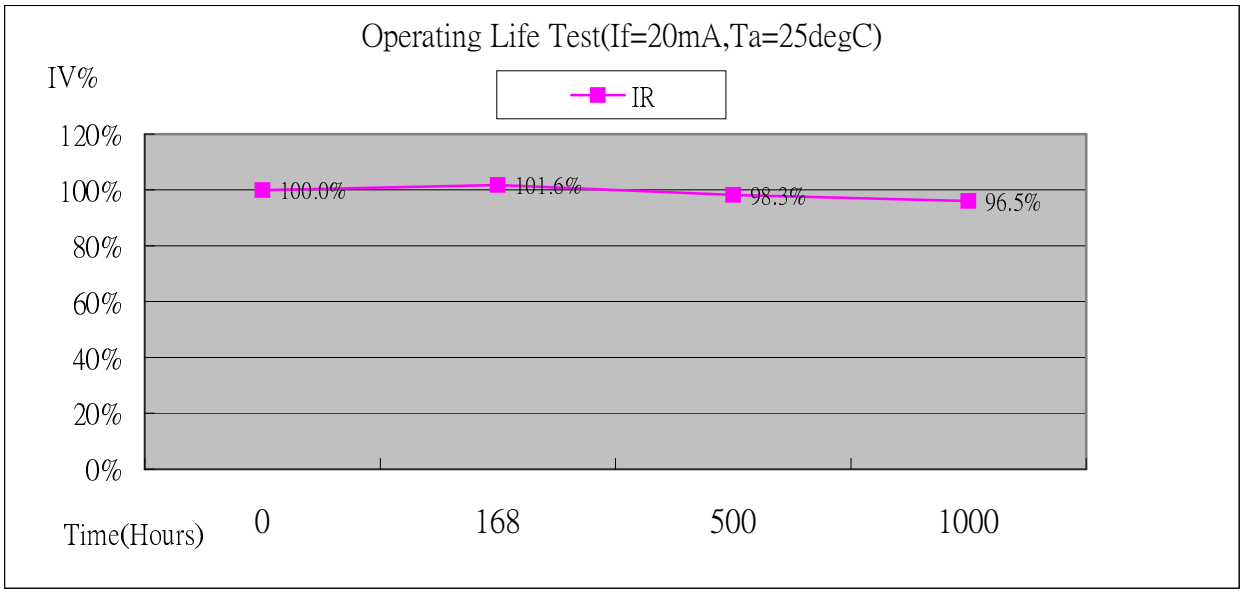






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OPERATION LIFE TEST LUMINANCE RATE CURVE



*Burn-in condition: 20mA
*Projection of Statistical Average Light Output Degradation Performance for LED Technology Extrapolated from OptoSupply QA Dept. Test Data.
*According to OptoSupply outgoing Packaged Products Specification
*MTBF:50,000hrs, 90% Confidence (A Failure is Any LED Which is Open, shorted or fails to Emit Light)
*The Projected Data is Base on The Feature of LED Itself Under Normal Operation Conditions.
*Any Improper Circuit Design or External Factors Might Cause a Different Result.

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