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SPECIFICATION

PART NO. : LT63A1-41

2.9MM ROUND LED LAMP

Approved by

Checked by

Prepared by

Fang

Jang

Bao Min



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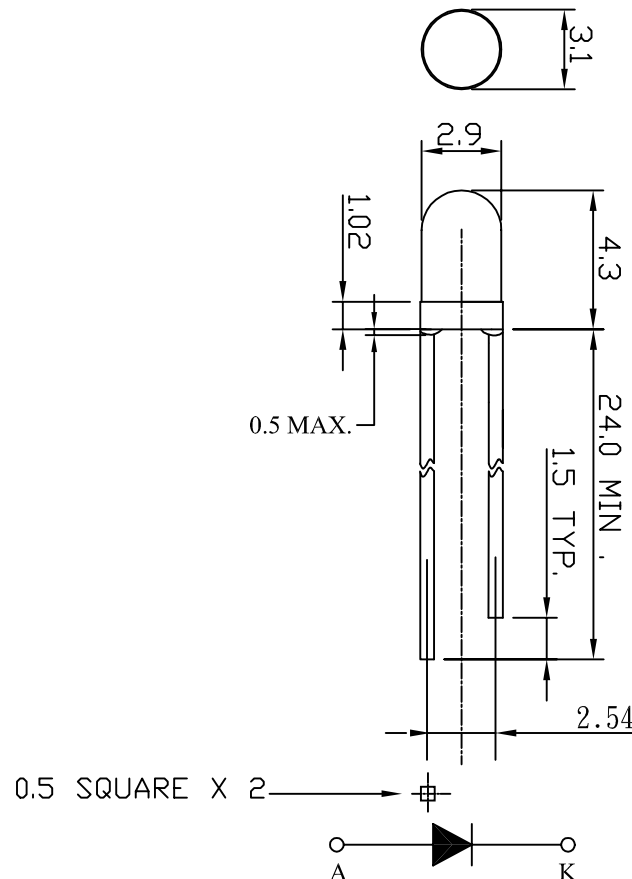
Features

- * High intensity
- * Reliable and rugged
- * Low current requirement
- * IC compatible

Description

The Amber lamps are made with GaAsP/GaP chips and amber diffused epoxy resin.

Package Dimensions



Notes:

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

Part No.	Led Chip		Lens Color
	Material	Emitting Color	
LT63A1-41	GaAsP/GaP	Amber	Amber diffused



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Absolute Maximum Ratings at Ta=25°C :

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	72	mW
Reverse Voltage	Vr	5	V
D.C. Forward Current	If	30	mA
Peak Current (1/10 Duty Cycle , 0.1 ms Pulse Width)	If(Peak)	100	mA
Operating Temperature Range	Topr	-25 to +85	°C
Storage Temperature Range	Tstg	-40 to +100	°C
Lead Soldering Temp.(1.6mm from body) for 5 seconds		260	°C

Electrical and Optical Characteristics :

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=20mA	25.0	43.0		mcd
Forward Voltage	Vf	If=20mA		2.1	2.6	V
Peak Wavelength	λP	If=20mA		610		nm
Dominant Wavelength	λD	If=20mA		605		nm
Reverse Current	Ir	Vr=5V			100	μA
Viewing Angle	$2 \theta 1/2$	If=20mA		54		deg
Spectrum Line Halfwidth	$\Delta \lambda$	If=20mA		35		nm

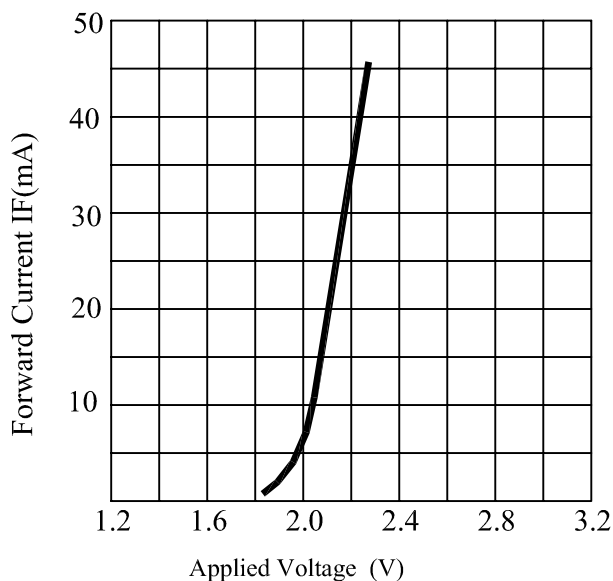


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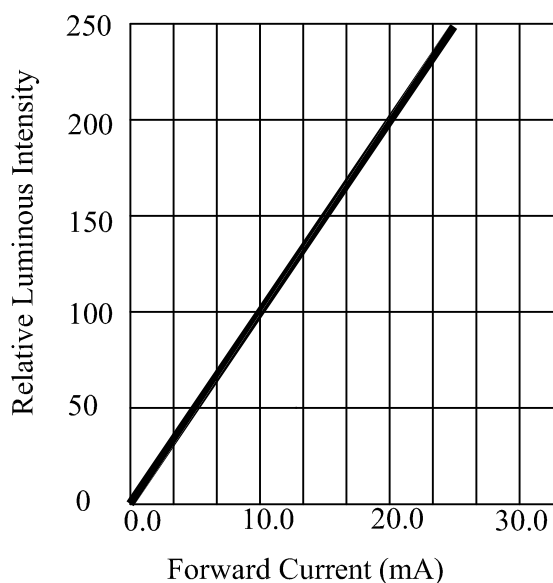
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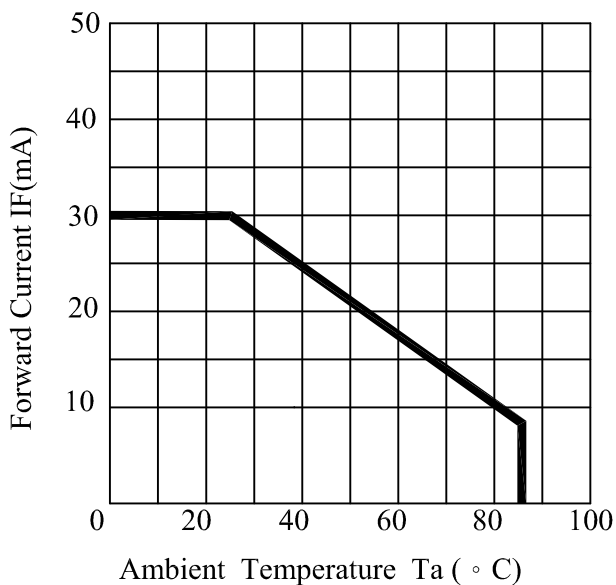
Typical Electrical / Optical Characteristics Curves :



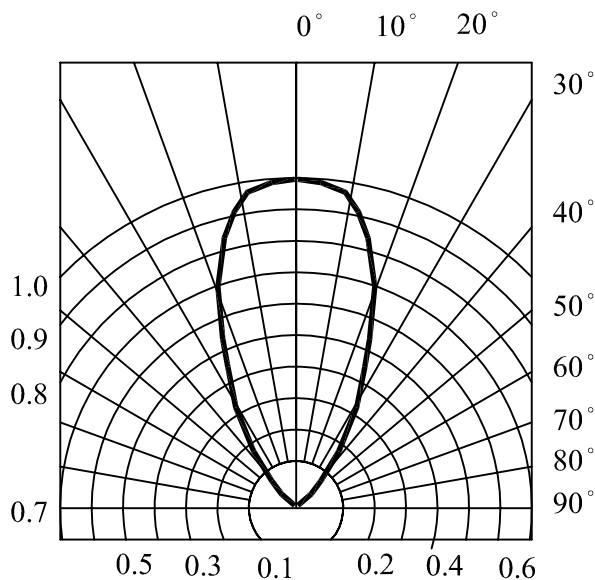
FORWARD CURRENT VS. APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



AMBIENT TEMPERATURE VS. FORWARD CURRENT



RADIATION DIAGRAM



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Reliability Test Method :

Test Item	Test Condition	Duration Time
Operation Life	If=20mA / Ta=25°C	168hrs
Storage at High Temperature	Ta=100°C	168hrs
Storage at Low Temperature	Ta=-40°C	168hrs
Storage at High Temperature/High Humidity	Ta=85°C /RH=85%	168hrs
Operating at High Temperature	Ta=85°C / If=20mA	168hrs
Operating at Low Temperature	Ta=25°C / If=20mA	168hrs
Thermal Shock	Ta/T=100°C/30min~ -40°C/30min	10 cycles
Solderability	Tsol=230°C	5 sec

Criteria for Judging The Damage:

Item	Symbol	Test Condition	Criteria for Judgment	
			Min.	Max.
Forward Voltage	Vf	If=20mA	-----	Initial Data $\times 1.1$
Reverse Current	Ir	Vr=5V	-----	100 μ A
Luminous Intensity	Iv	If=20mA	Initial Data $\times 0.8$	-----