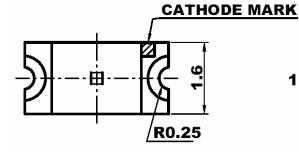
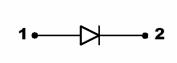


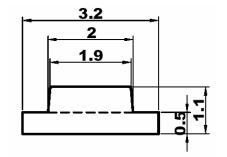
3.2 x 1.6 x 1.1mm SMD LED, Tape & Reel

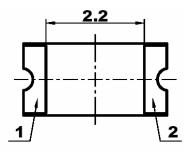
- **❖** 3.2 x 1.6 x 1.1mm SMD LED
- **❖ 120° VIEWING ANGLE**
- **❖** LOW POWER CONSUMPTION
- **❖** LOW CURRENT REQUIREMENT

Package Dimension

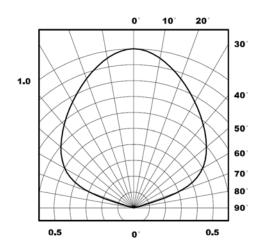








Notes: Unit = mm, Tolerance = ± 0.25 mm



Viewing Angle $2\theta 1/2 = 120^{\circ}$

Part Number	Chip		Long Tyme	Iv (IF = 20mA)	
	Material	Emitted Color	Lens Type	Min (mcd)	Typ (mcd)
L150YC-TR	GaAsP	Yellow	Water Clear	5	12



3.2 x 1.6 x 1.1mm SMD LED, Tape & Reel

- **❖** 3.2 x 1.6 x 1.1mm SMD LED
- **❖ 120° VIEWING ANGLE**
- **❖** LOW POWER CONSUMPTION
- **❖** LOW CURRENT REQUIREMENT

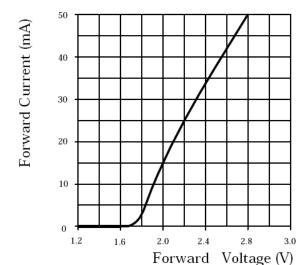
Absolute maximum ratings			Unit
$(TA=25^{\circ}C)$		(GaAsP)	
Reverse voltage	VR	5	V
Forward current	ΙF	30	mA
Forward current (Peak) 1/10 Duty Cycle,0.1ms Pulse Width	I fp	100	mA
Power dissipation	$\mathrm{P}\mathrm{d}$	75	mW
LED LAMPS:			
Operating temperature	Тор	-40~+85	°C °C
Storage temperature	Tst	-40~+85	°С
LED DISPLAYS: Operating temperature	Та	-40~+85	°C
Storage temperature	T_{STG}	-40~+85	°C

Operating characteristics			Unit
$(TA=25^{\circ}C)$		(GaAsP)	
Forward voltage(typ.) IF =20mA	V F	2.1	V
Forward voltage(max.) IF =20mA	V F	2.5	V
Reverse current(max.) $V_R = 5V$	Ir	10	uA
Wavelength at dominant emission(typ.) IF =20mA	λρ	590	nm
Wavelength at peak emission(typ.) IF =20mA	λp	589	nm
Spectral line half-width IF =20mA	Δ λ	35	nm
Capacitance V _F =0V ,f =1MHz	С	10	pF

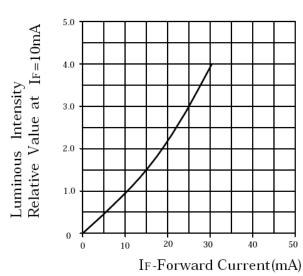


3.2 x 1.6 x 1.1mm SMD LED, Tape & Reel

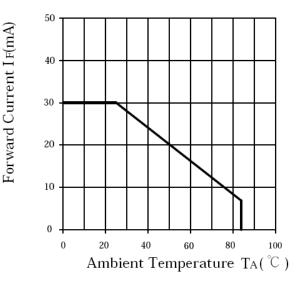
- **3.2** x 1.6 x 1.1mm SMD LED
- **❖ 120° VIEWING ANGLE**
- **❖ LOW POWER CONSUMPTION**
- **❖** LOW CURRENT REQUIREMENT



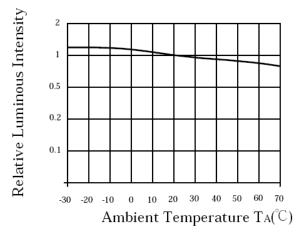
Forward Current Vs. Forward Voltage



Luminous Intensity Vs. Forward Current



Forward Current Derating Curve



Luminous Intensity Vs. Ambient Temperature



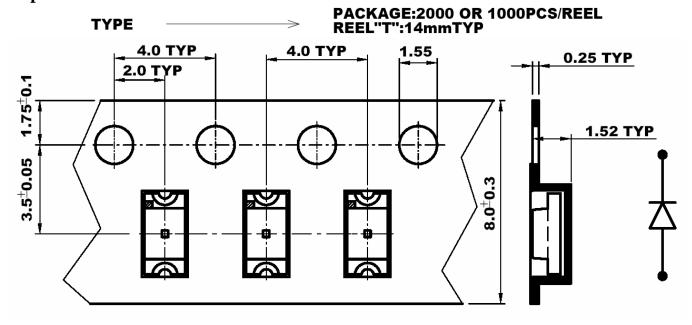
3.2 x 1.6 x 1.1mm SMD LED, Tape & Reel

- * 3.2 x 1.6 x 1.1mm SMD LED
- ❖ 120° VIEWING ANGLE
- **❖ LOW POWER CONSUMPTION**

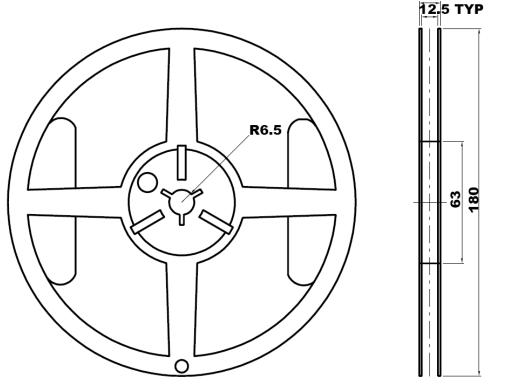
15 TYP

❖ LOW CURRENT REQUIREMENT

Tape Dimension



Reel Dimension



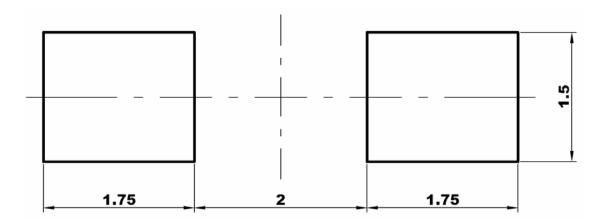
Notes: Unit = mm, Tolerance = ± 0.25 mm



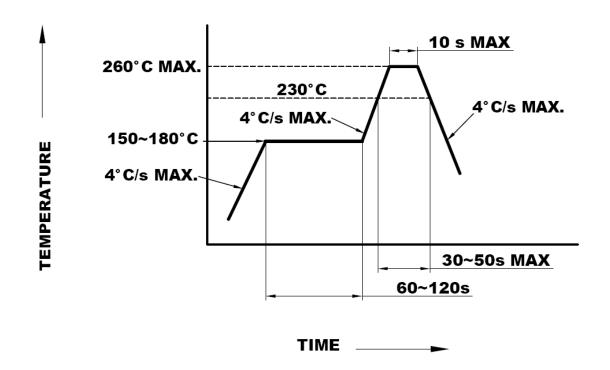
3.2 x 1.6 x 1.1mm SMD LED, Tape & Reel

- **❖** 3.2 x 1.6 x 1.1mm SMD LED
- **❖ 120° VIEWING ANGLE**
- **❖ LOW POWER CONSUMPTION**
- **❖ LOW CURRENT REQUIREMENT**

Reflow Soldering Pattern (Unit = mm)



SMD Reflow Soldering Instructions



SMT Reflow soldering 260°C one cycle



3.2 x 1.6 x 1.1mm SMD LED, Tape & Reel

- * 3.2 x 1.6 x 1.1mm SMD LED
- **❖ 120° VIEWING ANGLE**
- **❖ LOW POWER CONSUMPTION**
- **❖ LOW CURRENT REQUIREMENT**

SMD Handling and Application Precautions

STORAGE

- 1. It is recommended to store the devices in accordance with the following conditions:
 - a. Humidity: 60% RH Max
 - b. Temperature: $5^{\circ}\text{C} \sim 30^{\circ}\text{C} (41^{\circ}\text{F} \sim 86^{\circ}\text{F})$
- 2. Shelf life in sealed bag: 12 months at < 5°C ~ 30°C and < 60% RH. After the package is opened, products should be used within 72 hours, or they should be kept at ≤ 30% RH in zip-locked sealed bags.

DRY PACK AND BAKING

SMD LEDs are MOISTURE SENSITIVE devices. Avoid absorbing moisture at any time during transportation and/or storage. It is recommended to bake before soldering when the pack is unsealed after 72 hours, or any suspicious moisture being found. Bake devices in accordance with the following conditions:

- 50 \pm 3°C x (12 ~ 24 hours) and < 5% RH, tape and reel type
- 100 ± 3 °C x (45 min ~ 1 hour), loose packing type, OR
- 130 ± 3 °C x (15 min ~ 30 min), loose packing type

ELECTROSTATIC DISCHARGE (ESD) PROTECTION

Materials with GaN, InGaN, AlInGaP are STATIC SENSITIVE devices. They will be packed in anti-static bags. ESD protection must be deliberately observed from the initial design stage. Electrostatic discharge may result in severe malfunction of devices. In the event of manual working in process, make sure the devices are well-protected from ESD at any time. Surge before and during handling of products.