

Technical Data  
Data Sheet 3636, Rev. -

## Surface Mount Device LED

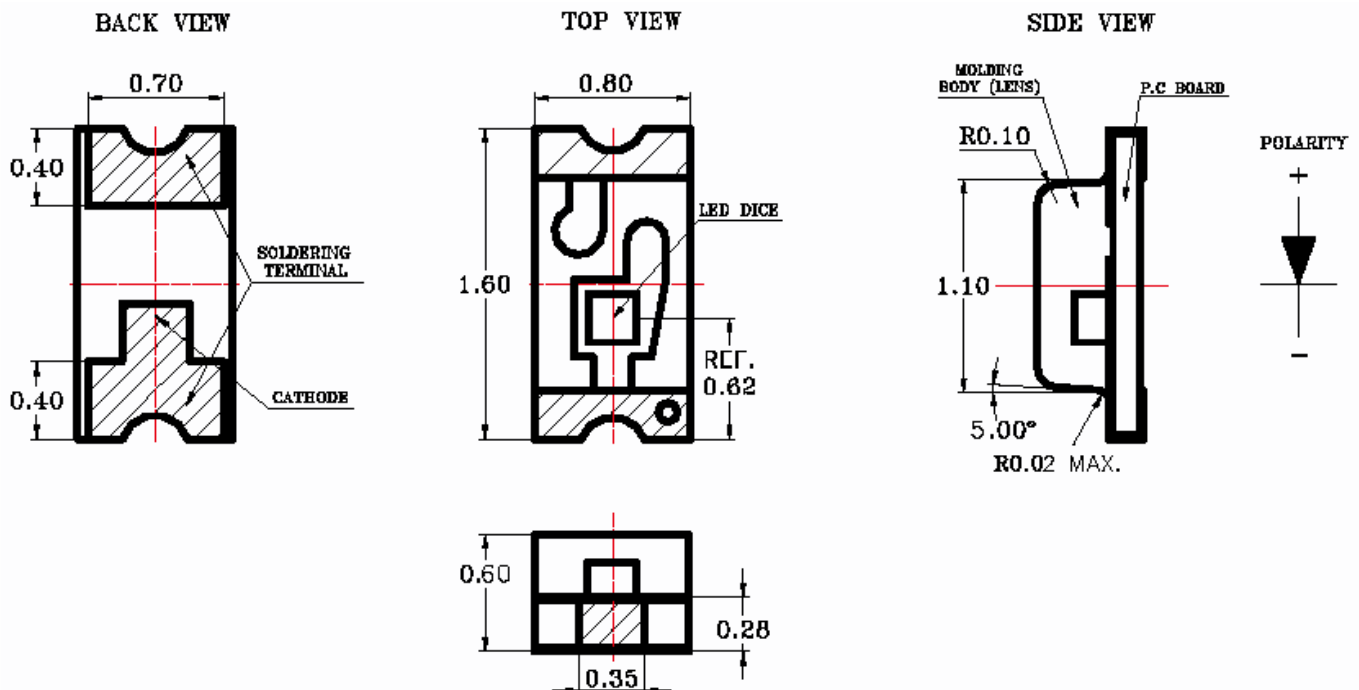
### Features:

- Top view, wide view angle, single color chip LED.
- Compatible with automatic Pick & Place equipment.
- Compatible with Infrared and Wave soldering reflow solder processes.
- EIA STD package.

### Ordering Information:

- Package in 8mm tape on 7" diameter reels.
- Tape quantity: 4000 pcs per reel with part number suffix "-T1"

### Mechanical Dimensions: In mm



### Notes:

1. All dimensions are in millimeters.
2. Tolerance is  $\pm 0.1$  mm (.004") unless otherwise noted.

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**Absolute Maximum Ratings (T<sub>A</sub> = 25 °C)**

Parameter	Symbol	Parameters	Unit
Power Dissipation	P <sub>AD</sub>	100	mW
Peak Forward Current (1/10 Duty Cycle, f = 1kHz)	I <sub>PF</sub>	120	mA
Continuous Forward Current	I <sub>AF</sub>	25	mA
Reverse Voltage	V <sub>R</sub>	5	V
Derating Linearly from 25 °C	-	0.25	mA/°C
Operating Temperature Range	T <sub>opr</sub>	-40 ~ +85	°C
Storage Temperature Range	T <sub>stg</sub>	-40 ~ +85	°C
Wave Soldering Condition (Two times Max)	-	260 ± 5 (for 5 seconds)	°C
Infrared Soldering Condition (Two times Max)	-	240 ± 5 (for 5 seconds)	°C

**Electro-Optical Characteristic (T<sub>A</sub> = 25 °C)**

Parameter	Symbol	Parameters	Unit
Dice Material	-	GaAsP	-
Light Color	-	Orange	-
Lens Color	-	Water Clear	-
Luminous Intensity @I <sub>F</sub> = 20 mA	I <sub>V</sub>	6.3 (Typ.) 2.5 (Min)	mcd
Viewing Angle @Note2	2θ <sub>1/2</sub>	130	Degree
Peak Emission Wavelength Measurement@Peak	λ <sub>p</sub>	630	nm
Dominant Wavelength @I <sub>F</sub> = 5 mA	λ <sub>D</sub>	620	nm
Spectral Line Half-Width	Δλ	24	nm
Forward Voltage @I <sub>F</sub> = 20 mA	V <sub>F</sub>	2.6(Max) 2.1 (Typ.)	V
Max. Reverse Current @ 5V	I <sub>R</sub>	100	μA

**TECHNICAL DATA**

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