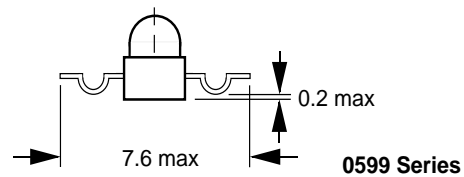
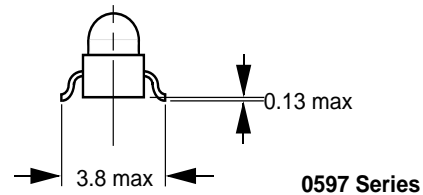
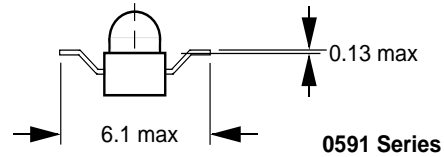
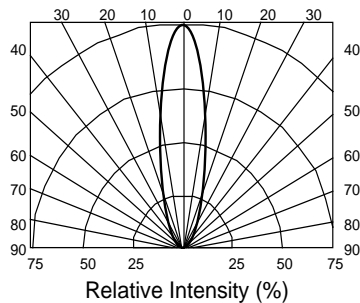
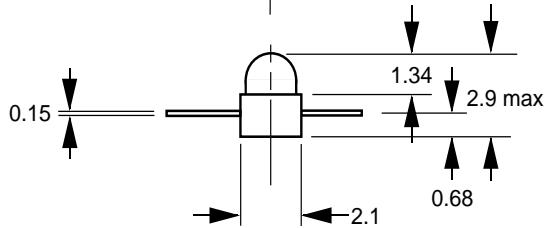
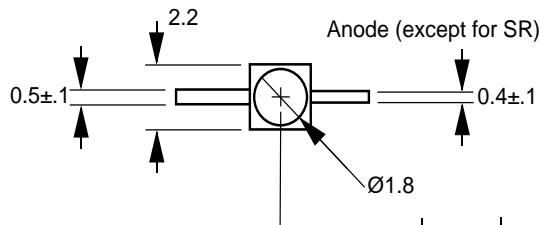


T-5/8 Surface Mounting Tape & Reel Package, 0591, 0597, 0599 Series



The 059X series of tape and reel packaged subminiature lamps are designed for automated surface mount applications. The different series indicate lead shaping from the same LED type. The body shape is more square. These lamps are compatible with vapor phase reflow surface mounting as well as conventional soldering.



GENERAL INFORMATION

| | |
|-----------------------------|------------------|
| Operating Temperature Range | -40 °C to +85 °C |
| Storage Temperature Range | -40 °C to +85 °C |
| Lead Soldering Temperature | 240 °C for 3 sec |
| Preheat Temperature | 100 °C |



RoHS Compliant
Aug 2004

APPLICATION INFORMATION (ALL RATINGS AT 25 °C AMBIENT)

| Part No. | Chip | | Peak | $\Delta\lambda$ | Absolute Maximum Ratings | | | | | E/O Characteristics | | | | | |
|-----------|-----------|---------------|-----------|-----------------|--------------------------|---------|-----|----|----|---------------------|--------------------|-----|-----------------------|-----|-----------------|
| | Material | Emitted Color | λ | | Pd | If (mA) | | Ir | Vr | Vf (V) @ If=20mA | | | Iv (mcd) @ If=20mA | | $2\Theta_{1/2}$ |
| | | | (nm) | | | (mW) | dc | | | 1/10 duty @ 1 kHz | @ Vr=5V (μ A) | (V) | Min | Typ | |
| ISRC059X | GaAlAs | Red | 660 | 20 | 100 | 30 | 150 | 10 | 5 | - | 1.7 | 2.4 | 60 | 100 | 25 |
| IVRC059X | GaAsP/GaP | Red | 640 | 45 | 105 | 30 | 150 | 10 | 5 | 1.7 | 2.0 | 2.8 | 16 | 25 | 25 |
| IVGC059X | GaP | Green | 570 | 30 | 105 | 25 | 150 | 10 | 5 | 1.7 | 2.1 | 2.8 | 12 | 20 | 25 |
| IVYC059X | GaAsP/GaP | Yellow | 585 | 35 | 105 | 30 | 150 | 10 | 5 | 1.7 | 2.0 | 2.8 | 16 | 25 | 25 |
| IUBC059X | GaN/SiC | Blue | 428 | 65 | 140 | 30 | 70 | 50 | 5 | - | 3.8 | 4.5 | 160 | 203 | 25 |
| IUBC059X7 | InGaN/SiC | Blue | 468 | 26 | 140 | 30 | 70 | 50 | 5 | - | 3.5 | 4.0 | 213 | 270 | 25 |

Specifications subject to change without notice. Dimensions are in mm±0.3 unless stated otherwise. *reversed polarity

IDEA, Inc., 1351 Titan Way, Brea, CA 92821 Ph:714-525-3302, 800-LED-IDEA; Fax: 714-525-3304 0508

013S-059X