



Technical Specification

BOOTED SMT LED
WL-L2017B70C-035
Ford Green

Preliminary

Features

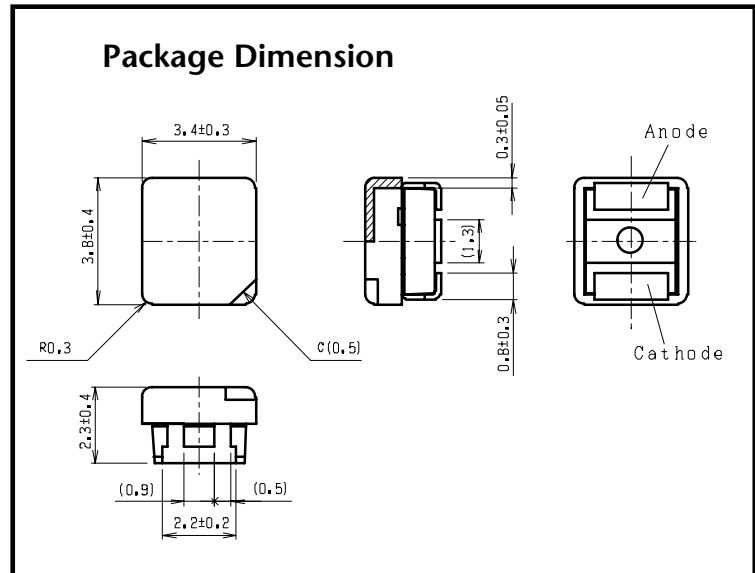
- White package.
- Optical indicator.
- Ideal for backlight and light pipe application.
- Inter reflector.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Suitable for vapor-phase reflow, infrared reflow and wave solder processes.
- Available on tape and reel (8mm tape).

Description

This LED/boot assembly provides precise color matching to specific x and y coordinates. Due to package design, this assembly has a wide viewing angle for optimized light coupling.

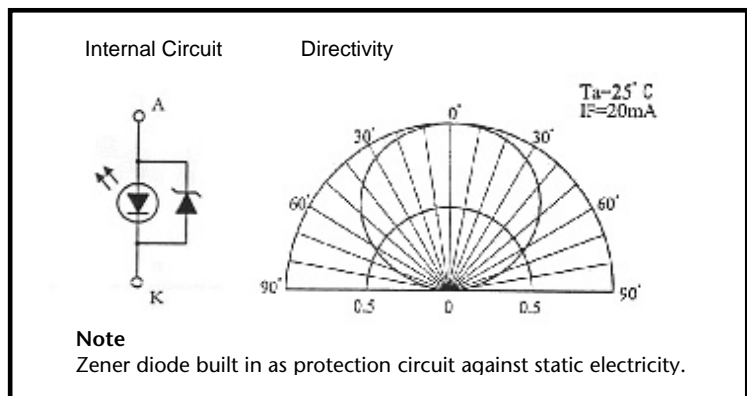
Applications

- Aerospace: backlight for panels, LCD's, switches and symbols.
- Automotive: backlight in dashboards and switches



Notes

- Tolerances are ± 0.1 mm unless otherwise stated.
- Unit = mm.



| Part Number | Chip | | Boot Color | Revision |
|------------------|-----------|---------------|------------|----------|
| | Material | Emitted Color | | |
| WL-L2017B70C-035 | InGaN/SiC | Custom | Green | 1.0 |



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Absolute Maximum Ratings at Ta = 25°C

| Symbol | Parameter | Rating | Unit |
|-----------|--|------------|------|
| If | Forward Current | 30 | mA |
| Topr | Operating Temperature | -40 ~ +85 | °C |
| Tstg | Storage Temperature | -40 ~ +100 | °C |
| Tsol | Soldering Temperature (for 3 seconds) | 300 | °C |
| Pd | Power Dissipation | 120 | mW |
| If (Peak) | Peak Forward Current (10% Duty Cycle, 10ms Pulse Width Max.) | 100 | mA |

Electronic Optical Characteristics

| Symbol | Parameter | Min. | Typ. | Max. | Unit | Condition | |
|--------|--------------------------------|------|------|------|------|-----------|---------|
| Iv | Luminous Intensity (estimated) | 172 | 296 | 420 | mcd | If=20mA | |
| 2θ½ | Viewing Angle | — | 130 | — | deg | If=20mA | |
| Vf | Forward Voltage | — | 3.6 | 4.0 | V | If=20mA | |
| — | *Chromaticity Coordinates | x | .32 | .34 | .36 | — | If=20mA |
| | | y | .555 | .575 | .595 | | |

* Per CIE 1931 Chromaticity Diagram.

Intensity Ranks

| Symbol | Parameter | Rank | Min. | Typ. | Max. | Unit | Condition |
|--------|--------------------|------|------|------|------|------|-----------|
| Iv | Luminous Intensity | S | 172 | 257 | 343 | mcd | If=20mA |
| | | T | 183 | 301 | 420 | | |



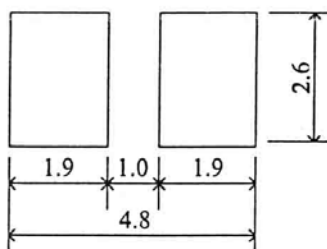
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Soldering Conditions

| Soldering | Solder Dipping | Reflow Soldering |
|---|---|---|
| Soldering Iron: 20W Max Temperature: 300°C Max. Soldering Time: 3 Seconds Max. | Pre-Heat: 100°C Max. Pre-Heat Time: 60 Seconds Max. Solder Bath Temperature: 260°C Max. Dipping Time: 5 Seconds Max. | Pre-Heat: 120~150°C Pre-Heat Time: 2 Minutes Max. Solder Bath Temperature: 240°C Dipping Time: 5 Seconds Max. Conditions: Refer to Temperature Profile |

Solder Pad Layout



Temperature Profile

