

GW5BTF15L0B

■ White LED (High Color Rendering)

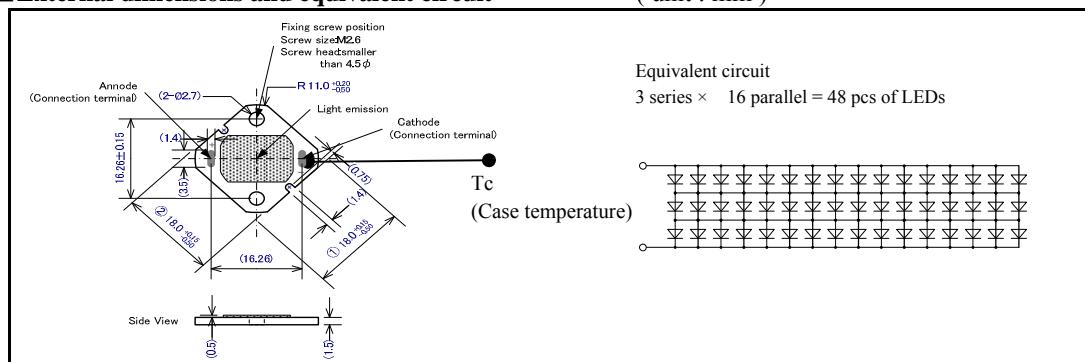
- High power consumption 6.7W & high CRI LED emitters for solid-state lighting application.
- Blue LED die + Red and Green phosphor technique to achieve high CRI.
- Based on "ceramic substrate" to achieve high level reliability and heat release.

■ Feature

- (1) Outside dimension 18 x 18 x 1.5mm *1 (Emitting part excluded)
- (2) 48 LED dice mounted.
- (3) CRI Ra=87(Avg.), Color temperature 3,000K
- (4) Not required wiring on board. Possible to attach easily and directly to heat sink.
- (5) CCT and Ra characteristics are based on EnergyStar program.

■ External dimensions and equivalent circuit

(unit : mm)



■ Absolute maximum ratings (Reference value)

| Item | Symbol | Rating | Unit |
|-----------------------|------------------|------------|------|
| Power Dissipation | P | 8.0 | W |
| Forward Current | I _F | 700 | mA |
| Reverse Voltage | V _R | 15 | V |
| Operating Temperature | T _{opr} | -30 ~ +90 | °C |
| Storage Temperature | T _{stg} | -40 ~ +100 | °C |

■ Electro-optical characteristics (Reference value)

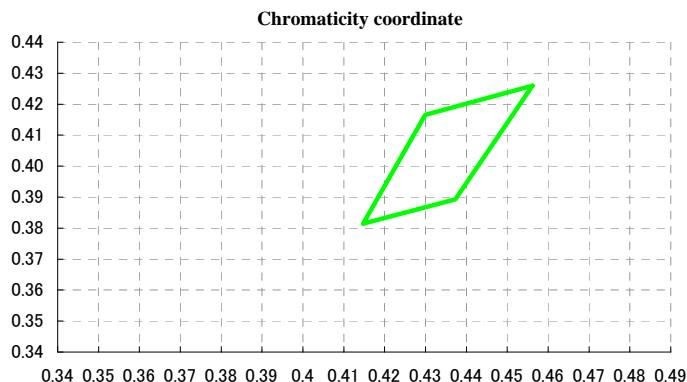
(Tc=25°C)

| Item | Symbol | Condition | MIN. | TYP. | MAX. | Unit |
|--------------------------|----------------|-------------------------|--------|----------------|--------|------|
| Forward Voltage | V _F | I _F = 640 mA | 8.5 | (10.5) | 11.5 | V |
| Luminous Flux | Φ | I _F = 640 mA | 270 | (360) | - | lm |
| Chromaticity Coordinates | x y | I _F = 640 mA | - - | 0.434 0.403 | - - | - |
| Color Temperature | - | I _F = 640 mA | (2870) | 3045 | (3220) | K |
| CRI | Ra | I _F = 640 mA | - | (87) | - | - |

■ Chromaticity coordinate

| Rank | | Chromaticity table | | | |
|------|---|--------------------|---------|---------|---------|
| | | Point 1 | Point 2 | Point 3 | Point 4 |
| - | x | 0.4562 | 0.4299 | 0.4147 | 0.4373 |
| - | y | 0.4260 | 0.4165 | 0.3814 | 0.3893 |

(I_F=640mA T_c=25°C)



The information of this leaflet is tentative definition. Please confirm it with specifications when you adopt it.