

## GW5BQC15L02

### White LED (High Color Rendering)

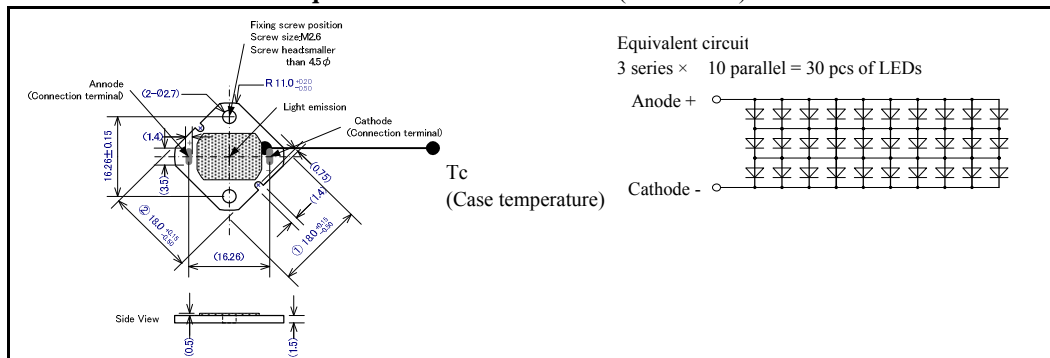
- High power consumption 3.6W & high CRI LED emitters for solid-state lighting application
- Blue LED die + Red and Green phosphor technique to achieve high CRI.
- Based on "ceramic substrate" to achieve high level reliability and heat release.

### Feature

- (1) Outside dimension 18 x 18 x 1.5mm<sup>+1</sup> (Emitting part excluded)
- (2) 30 LED dice mounted per a substrate.
- (3) CRI Ra=85(Avg.), Color temperature 2,700K
- (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	4.4	W
Forward Current	I <sub>F</sub>	400	mA
Reverse Voltage	V <sub>R</sub>	15	V
Operating Temperature	T <sub>opr</sub>	- 30 ~ + 90	°C
Storage Temperature	T <sub>stg</sub>	- 40 ~ + 100	°C

### Electro-optical characteristics (Reference value)

(T<sub>c</sub>=25°C)

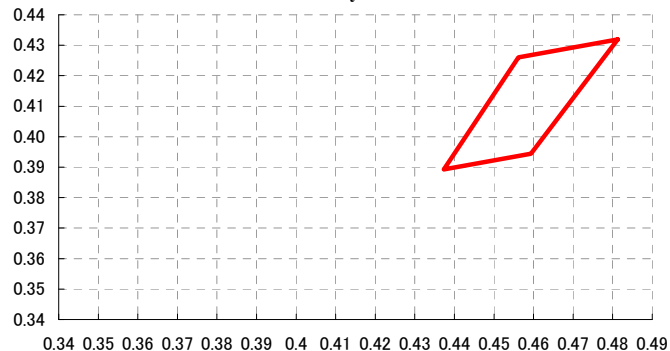
Item	Symbol	Condition	MIN.	TYP.	MAX.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 360 mA	8.5	(10.2)	11.5	V
Luminous Flux	Φ	I <sub>F</sub> = 360 mA	105	(160)	-	lm
Chromaticity Coordinates	x	I <sub>F</sub> = 360 mA	-	0.4578	-	-
	y		-	0.4101	-	-
Color Temperature	-	I <sub>F</sub> = 360 mA	(2580)	2725	(2870)	K
CRI	Ra	I <sub>F</sub> = 360 mA	-	(85)	-	-

### Chromaticity coordinate

Rank		Chromaticity table			
		Point 1	Point 2	Point 3	Point 4
-	x	0.4813	0.4562	0.4373	0.4593
	y	0.4319	0.4260	0.3893	0.3944

(I<sub>F</sub>=360mA T<sub>c</sub>=25°C)

Chromaticity coordinate



This product is under development. Please confirm it with specifications when you adopt it.