

GW5BQC15L02

White LED (High Color Rendering)

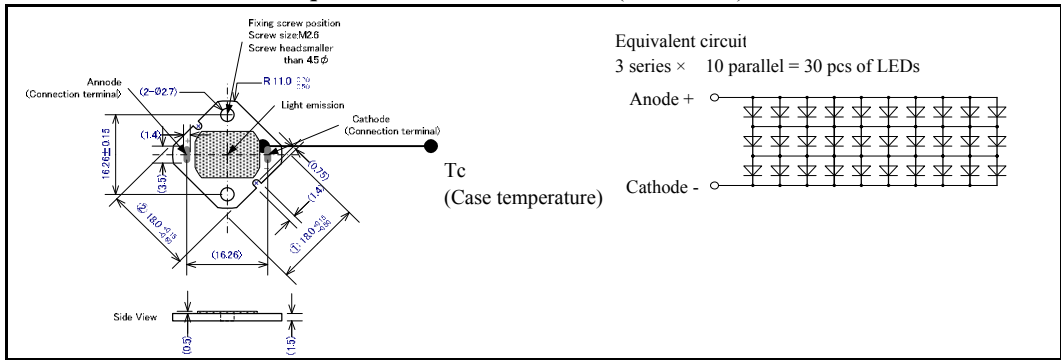
- High power consumption 3.6W & high CRI LED emitters for solid-state lighting application
- Blue LED die + Red and Green phosphor technique to achieve high CRI.
- Based on "ceramic substrate" to achieve high level reliability and heat release.

Feature

- (1) Outside dimension 18 x 18 x 1.5mm⁺¹ (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 _F	400	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)

(T_c=25°C)

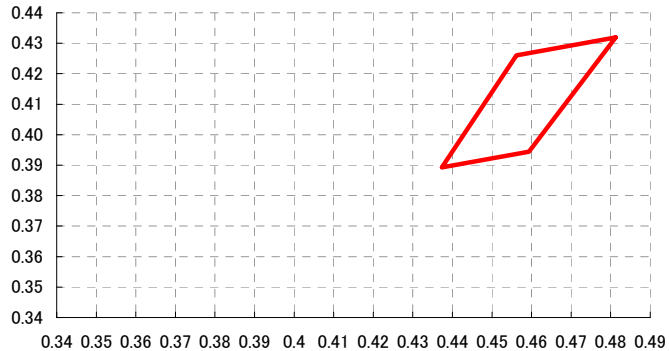
Item	Symbol	Condition	MIN.	TYP.	MAX.	Unit
Forward Voltage	V _F	I _F = 360 mA	8.5	(10.2)	11.5	V
Luminous Flux	Φ	I _F = 360 mA	105	(160)	-	lm
Chromaticity Coordinates	x	I _F = 360 mA	-	0.4578	-	-
	y		-	0.4101	-	-
Color Temperature	-	I _F = 360 mA	(2580)	2725	(2870)	K
CRI	Ra	I _F = 360 mA	-	(85)	-	-

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_F=360mA T_c=25°C)

Chromaticity coordinate



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