

GW5BNC50K00

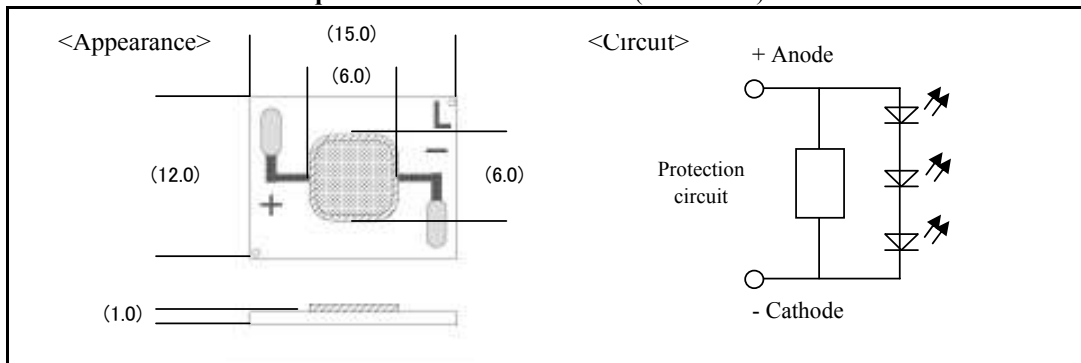
White LED (High Color Rendering)

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

Features

- (1) Outside dimension 15 x 12 x 1.0mm (Emitting part excluded)
- (2) CRI Ra=85(Avg.), Color temperature 5 000K
- (3) Not required wiring on board. Possible to attach easily and directly to heat sink.
- (4) CCT and Ra characteristics are based on Energy Star 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

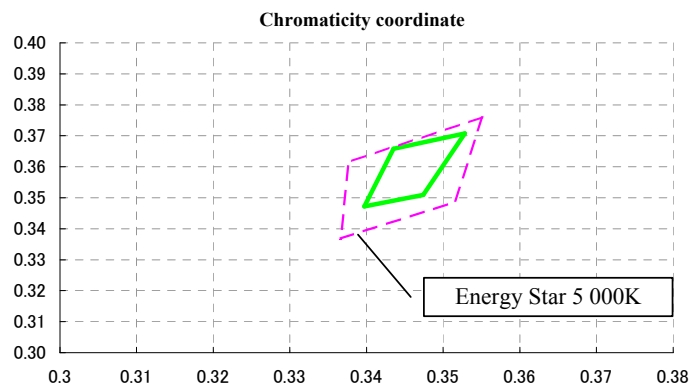
Electro-optical characteristics (Reference value) (Tc=25°C)

Item	Symbol	Condition	MIN.	TYP.	MAX.	Unit
Forward Voltage	V_F	$I_F = 360 \text{ mA}$	9.0	(10.3)	11.5	V
Luminous Flux	Φ	$I_F = 360 \text{ mA}$	190	(240)	-	lm
Chromaticity Coordinates	x	$I_F = 360 \text{ mA}$	-	(0.346)	-	-
	y		-	(0.359)	-	-
Color Temperature	-	$I_F = 360 \text{ mA}$	(4800)	(5000)	(5200)	K
CRI	Ra	$I_F = 360 \text{ mA}$	-	(85)	-	-

Chromaticity coordinates

Rank	Item	Chromaticity table			
		Point 1	Point 2	Point 3	Point 4
-	x	0.3435	0.3397	0.3474	0.3528
	y	0.3658	0.3472	0.3509	0.3708

($I_F=360\text{mA}$ $T_c=25^\circ\text{C}$)



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