# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

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## SHARP

### GW5BQC15L02

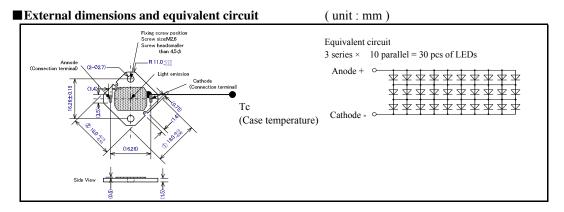
Under Development
New release

#### 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 phosper technique to achieve high CRI.
- Based on "ceramic substrate" to achieve high level reliability and heat release.

#### ■ Feature

- (1) Outside demension 18 x 18 x 1.5mmt \*1 (Emiting part excluded)
- (2) 30 LED dice mounted per a substrate.
- (3) CRI Ra=85(Avg.), Color temperture 2,700K
- (4) Not required wiring on board. Possible to attach easily and directly to heat sink.
- (5) CCT and Ra charactristics are based on EnergyStar program.



#### ■ Absolute maximum ratings (Reference value)

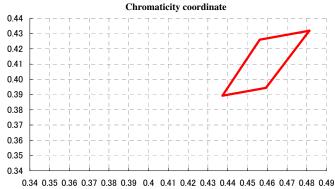
Item	Symbol	Rating	Unit
Power Dissipation	Р	4.4	W
Forward Current	$I_{\rm F}$	400	mA
Reverse Voltage	VR	15	V
Operating Temperature	T <sub>opr</sub>	- 30 ~ + 90	°C
Storage Temperature	T <sub>stg</sub>	- 40 ~ + 100	°C

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

Item	Symbol	Condition	MIN.	TYP.	MAX.	Unit
Forward Voltage	V <sub>F</sub>	$I_{\rm F} = 360  {\rm mA}$	8.5	(10.2)	11.5	V
Luminous Flux	Φ	$I_{\rm F} = 360 \text{ mA}$	105	(160)	-	lm
Chromaticity	x	$I_{\rm F} = 360  {\rm mA}$	-	0.4578	-	-
Coordinates	У	$I_{\rm F} = 300  {\rm mA}$	-	0.4101	-	-
Color Temperature	-	$I_{\rm F} = 360 \text{ mA}$	(2580)	2725	(2870)	K
CRI	Ra	$I_{\rm F} = 360 \text{ mA}$	-	(85)	-	-

#### Chromaticity coordinate

Rank		Chromaticity table			
Kalik		Point 1	Point 2	Point 3	Point 4
	Х	0.4813	0.4562	0.4373	0.4593
-	у	0.4319	0.4260	0.3893	0.3944
		$(I_{\rm F}=360 {\rm mA} {\rm T_c}=25 {\rm °C})$			



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

