



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!



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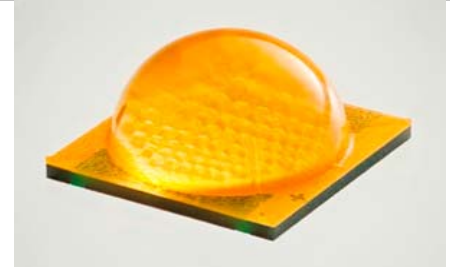
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Cree MT-G2 Series

The first EasyWhite LED array built on the SC³ Technology Platform, Cree's XLamp MT-G2 LED pushes performance limits to redefine lumen levels and efficacy while delivering the industry's best color consistency and superior optical control. The MT-G2 LED delivers up to 1987 lumens in cool white and 1735 lumens in warm white, both at 18.5 watts, 85°C.


FEATURES

- > Cree EasyWhite color temp from 2700K to 5000K
- > 85°C binning and characterization
- > UL- recognized component (E349212)
- > Electrically Neutral Thermal Path

APPLICATIONS

- > Directional
- > Downlight

FLUX CHARACTERISTICS @ 85°C

COLOR	CCT (TYP.)	MIN.FLUX (LM) @350MA	KIT USED
Warm White	2700K	600	J027F
Neutral White	5000K	750	N050F

CHARACTERISTICS	UNIT	MINIMUM	TYPICAL	MAXIMUM
Viewing angle (FWHM)	degrees		115	
Effective Thermal Resistance, Junction to Solder Point	°C/W		1.5	
ESD classification (HBM per Mil-Std-883D)			Class 2	
LED junction temperature	°C			150
DC forward current (6V)	mA			3000
DC forward current (9V)	mA			2000
DC forward current (36V)	mA			500
Forward voltage (6V, 1000 mA, 85 °C)	V		5.7	
Forward voltage (6V, 1000 mA, 25 °C)	V			7
Forward voltage (9V, 735 mA, 85 °C)	V		8.55	
Forward voltage (9V, 735 mA, 25 °C)	V			10.5
Forward voltage (36V, 185 mA, 85 °C)	V		34.2	
Forward voltage (36V, 185 mA, 25 °C)	V			42
Temperature coefficient of voltage (6V)	mV/°C		-4	
Temperature coefficient of voltage (9V)	mV/°C		-6	
Temperature coefficient of voltage (36V)	mV/°C		-26	
Reverse voltage	V			-5
Reverse Current	A			0.1

It is highly recommended for the user to review the CREE Series page for additional and most recent technical data at:
<http://www.cree.com/led-components-and-modules/products/xlamp/arrays-directional/xlamp-mtg2-easywhite>

- * Exceeding maximum ratings may damage the LED and cause potential safety hazards.
- * Elevated operating temperatures can be expected to negatively impact the service life (lumen output)
- * All data is related to entire assembly. Data reflects statistical mean values. Actual data may differ depending on variances in the manufacturing process.
- * End users need to take into account the lumen depreciation as the temperature rises with various thermal solutions installed.

Note 1: Using continuously under elevated loads (i.e. the application of high temperature/current/voltage or a significant change in temperature, etc.) may cause this product to significantly decrease in reliability even if the operating conditions are within the absolute maximum ratings.

Note 2: The thermal resistance from the LED junction to ambient temperature, $R_{th(j-a)}$, should be kept below 10°C/W so that the LED is not exposed to a condition beyond the absolute maximum ratings.

Note 3: The temperature of the LED assembly must be measured at the TC-point according to EN60598-1 in a thermally constant status with a temperature sensor or a temperature sensitive label.

Hardware (not included)

- > Mount with #4 Machine Screws.
- > 16AWG Maximum Wire Gauge.
- > Use only with constant current power supplies.

PCB Fabrication

- > Layer Count: 1
- > Core Material: 6061-T6 Aluminum
- > Single Layer Copper Weight: 1oz
- > Solder Mask: White
- > Finishing Plating: Pb Free HASL

