



PRODUCT SPECIFICATION

Model No : CSL-F300DM2CT

Descriptions:
<ul style="list-style-type: none"> • LED Type : Lighting LED Lamp • LED Package : Round LED Lamp • Emitting Color : RED & GREEN • Viewing Angle : • No Stopper



CUSTOMER APPROVED SIGNATURES	APPROVED BY	CHECKED BY	PREPARED BY

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Spec. No.	0
Rev.	D

Model No : CSL-F300DM2CT

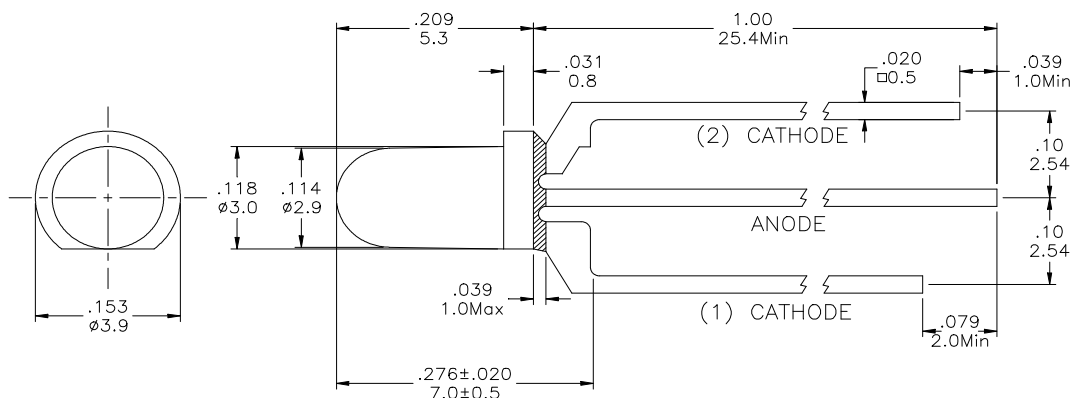
Features -

- § **Bi-color LED Lamp**
- § **Low Power Consumption**
- § **High Intensity**
- § **I.C. compatible**

Device Selection Guide -

Part No.	Chip		LED Lens
	Material	Emitted Color	
CSL-F300DM2CT	—	(1) RED (2) GREEN	Water Transparent

Package Outline Dimensions -



* Tolerance : $\pm \frac{0.01}{0.25}$ Unit : $\pm \frac{\text{inch}}{\text{mm}}$



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■ Absolute Maximum Rating -

(Ta=25°C)

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	84	mW
Forward Current (DC)	IF	30	mA
Peak Forward Current *	IFP	100	mA
Reverse Voltage	VR	5	V
Operating Temp.	Topr	-40 ~ +80	°C
Storage Temp.	Tstg	-40 ~ +100	°C
Lead Soldering Temperature	Tsol	Max. 260 for 5 sec Max. (3mm from the epoxy bulb)	

* Pulse width \cong 0.1 msec. duty \cong 1/10

■ Electro-optical Characteristics -

(Ta=25°C)

Parameter	Symbol		Min.	Typ.	Max.	Unit	Condition
Forward Voltage	VF	D		1.8	2.5	V	If=20mA
		M	----	2.2	2.8		
Luminous Intensity	Iv	D	30	60	----	mcd	
		M	15	30	----		
Peak Wavelength	λP	D	----	660	----	nm	
		M	----	570	----		
Reverse Current	IR	----	----	----	100	μA	VR=5V



■ Typical Electrical / Optical Characteristics Curves -

Fig 1. Forward Current vs. Forward Voltage

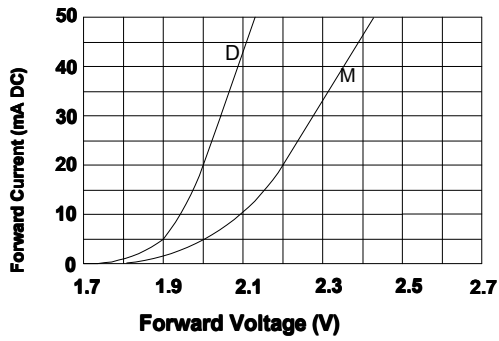


Fig 2. Relative Intensity vs. Forward Current

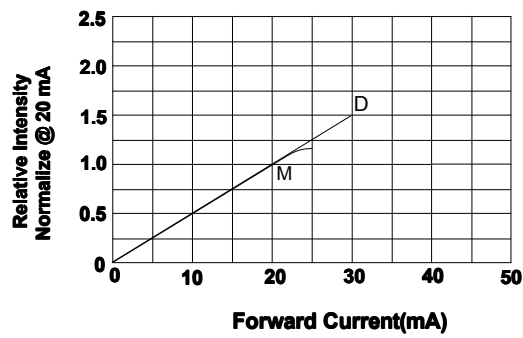


Fig 3. Forward Current vs. Temperature

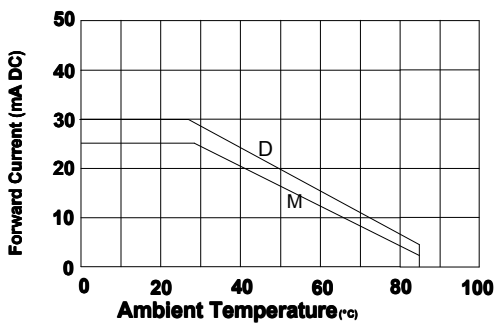


Fig 4. Relative Intensity vs. Temperature

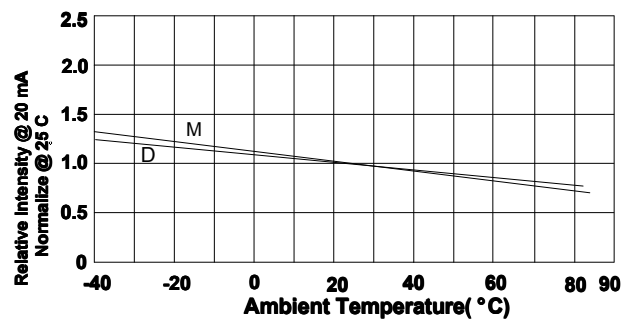
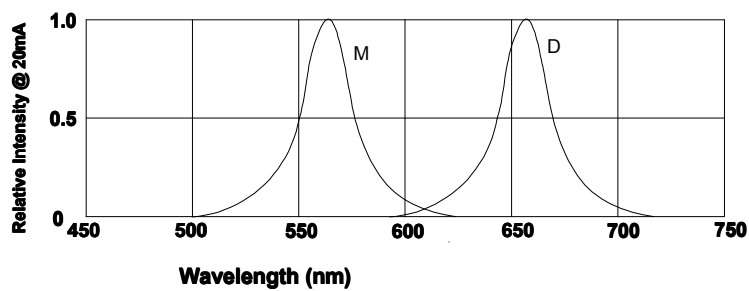


Fig 5. Relative Intensity Vs. Wavelength





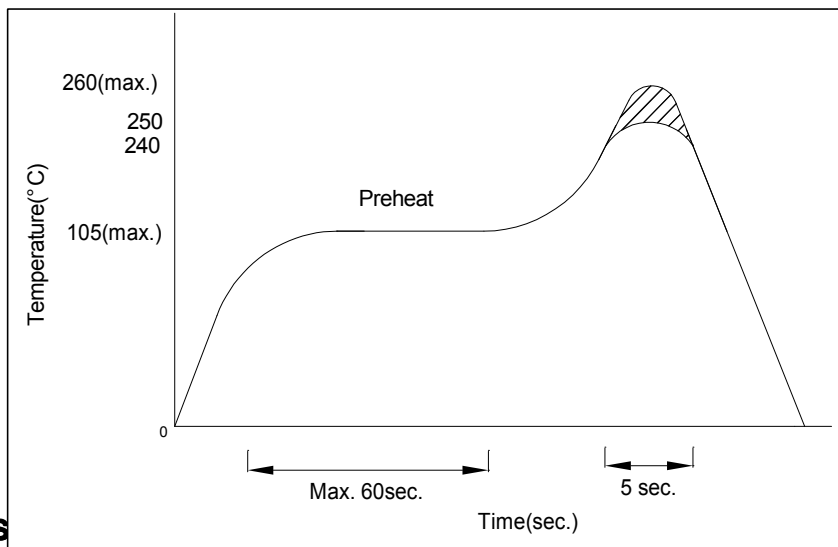
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■ Precautions For Use -

1. Recommended Soldering conditions

Wave Soldering



2. S

Basic SPEC. is $\leq 5\text{sec.}$ When 260°C . If temperature is higher, time should be shorter ($+10^{\circ}\text{C} \rightarrow -1\text{sec.}$). Power dissipation of iron should be smaller than 15W, and temperature should be controllable. Surface temperature of the device should be under 230°C .

3. Static Electricity

a. Static electricity or surge voltage damages LEDs..

It is recommended that a wrist band or an anit-electrostatic glove be used when handling the LEDs.

b. All devices, equipment and machinery must be properly grounded. It is recommended that mesures be taken against surge voltage to the equipment that mounts the LEDs.

■ Revision History

Rev. NO	Date		Change Description
A	2008-6-10		