

Ultra White Led Lamps EC-5W2C – EC-5W22C

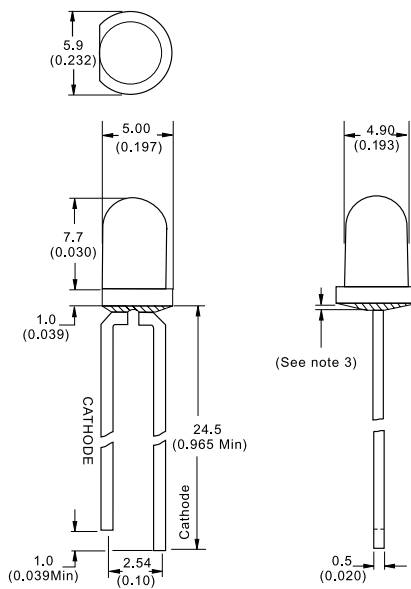
Features

- Suitable high pulse current operation
- Extra high radiant power and radiant intensity
- High reliability
- Low forward voltage

Chip Materials

- Dice Material: GaInN/GaN
- Light Color: ULTRA WHITE
- Lens Color: WATER CLEAR

Package Dimensions



Note:

1. All Dimensions are in millimeters.
2. Tolerance is ± 0.25 mm (0.010") Unless otherwise specified.
3. Protruded resin under flange is 1.5 mm (0.059") max.
4. Lead spacing is measured where the leads emerge from the package
5. Specification are subject to change without notice

Absolute Maximum Rating: ($T_a=25^\circ\text{C}$)

Symbol	Description	Ultra White	Unit
PD	Power Dissipation	120	mW
VR	Reverse Voltage	5	V
IF	Average Forward Current	30	mA
-	Derating Linear From 25°C	0.4	mA/°C
Topr	Operating Temperature Range	-25°C to 85°C	
Tstg	Storage Temperature Range	-40°C to 85°C	

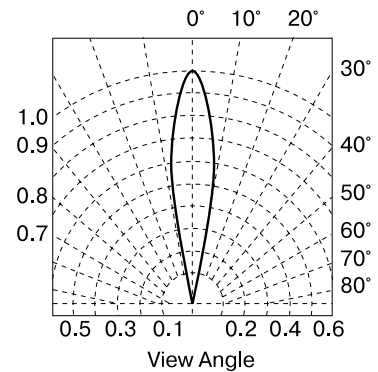
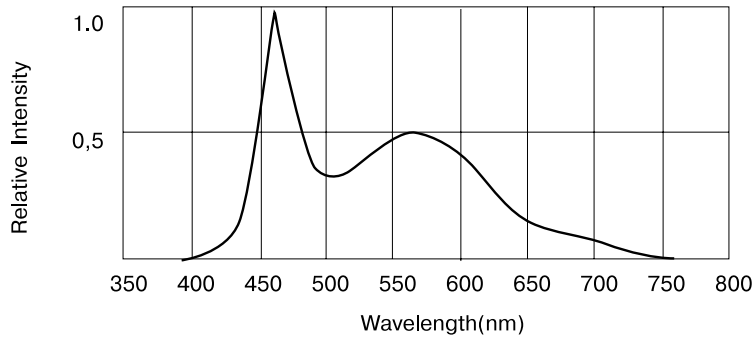
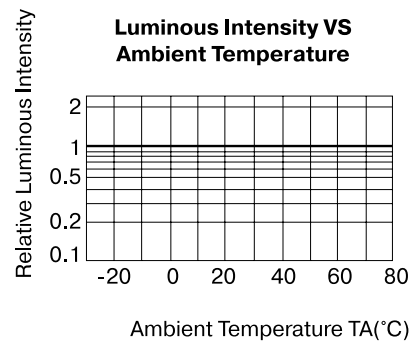
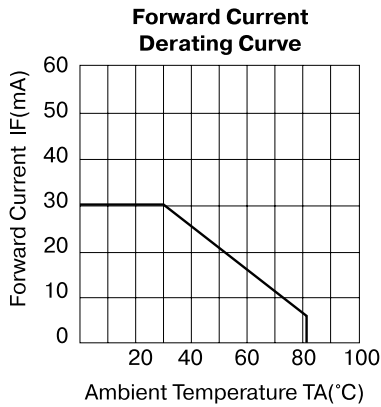
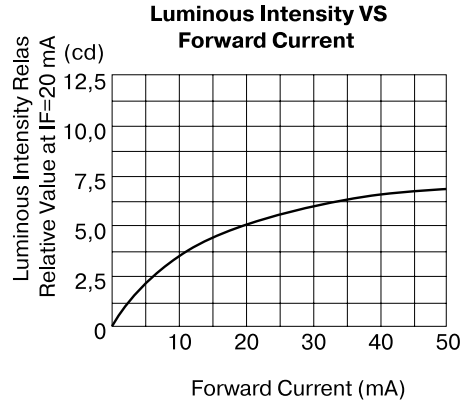
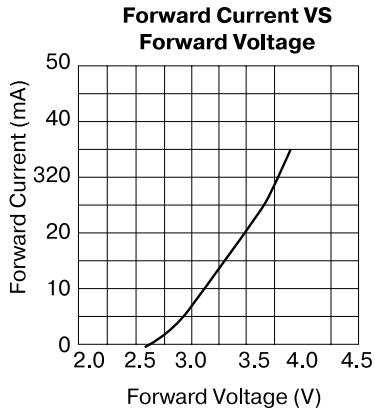
Lead Soldering Temperature(1.6 mm (0.063 inch) From Body) 250°C \pm 5°C For 3 Seconds

Electro-optical Characteristics: ($T_a=25^\circ\text{C}$)

Symbol	Description	Test Condition	Min.	Typ.	Max.	Unit
Vf	Forward Voltage	IF=20mA		3.5	4.0	V
IR	Reverse Current	VR=5V			100	μA
20 1/2	Half Intensity Angle	IF=20mA		18		deg

Iv	Luminous Intensity	IF=20ma	2.000-22.000	-	Mcd	-
----	--------------------	---------	--------------	---	-----	---

X	Chromaticity Coordinates	IF=20mA		0.29		
Y		IF=20mA		0.30		



RELIABILITY TEST

Classification	Test Item	Description and Test Condition
Endurance Test	High Temperature High Humidity	Ta=65±5°C Rh=90-95%Rh Test Time=1000 hrs (-24hrs, 72hrs)
	High Temperature	Ta=105±5°C Test Time=1000 hrs (-24hrs, 72hrs)
	Low Temperature	Ta=55±5°C Test Time=1000 hrs (-24hrs, 72hrs)
	Operation Life	Ta=under room temperature Test Time=1000 hrs (-24hrs, 72hrs)
Environmental Test	Thermal Shock	105±5°C ~ -55±5°C 10 min 10 min 10 Cycles
	Solderability	T.Sol=250±5°C Dwell Time=10±1 Sec.