

Features

- InGaN TECHNOLOGY
- HIGH POWER OUTPUT
- NARROW VIEW ANGLE FOR MAXIMUM LIGHT OUTPUT

PRELIMINARY

Absolute Maximum Ratings at T_A=25°C

REVERSE VOLTAGE (<50 μ A)	5.0V
D.C. FORWARD CURRENT	20mA
PULSE CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	100 mA
OPERATING TEMPERATURE RANGE	-25°C TO +85°C
STORAGE TEMPERATURE RANGE	-25°C TO +100°C
LEAD SOLDERING TEMP. (1.6mm FROM BODY)	260°C FOR 5 SEC.
ELECTROSTATIC DISCHARGE THRESHOLD (HBM)	1000 V

Precautions:

These products are sensitive to static electricity; high standard of care must be fully taken when handling them. Particularly if an over-voltage that exceeds the Absolute Maximum Rating of these products were applied, the overflow energy will cause damage to and possibly result in destruction of these products. Buyer shall take absolute secure countermeasures against static electricity and surge when handling these products.



Eye Safety Information

These LED devices are measured to be AEL Class 2 LED Products per IEC 825-1 and CENELEC EN60825-1 Standards when operated at the maximum data sheet dc drive current. For eye safety, do not stare into the light beam of these LED devices at close range.

Electrical/Optical Characteristics at T_A=25°C

PART NUMBER	LED CHIP		LENS COLOR	WAVELENGTH TYP.	FORWARD VOLTAGE @20mA(V)		LUMINOUS INTENSITY @20mA(mcd)		VIEW ANGLE 2θ _{1/2} (deg)
	MATERIAL	EMITTING COLOR		I _F @20mA (nm)	TYP.	MAX.	MIN.	TYP.	
				λ d					
LT1823-83-URC3-P27	InGaN	TRUE GREEN	W.C.	525 ± 10	3.6	4.0	1500	2500	15

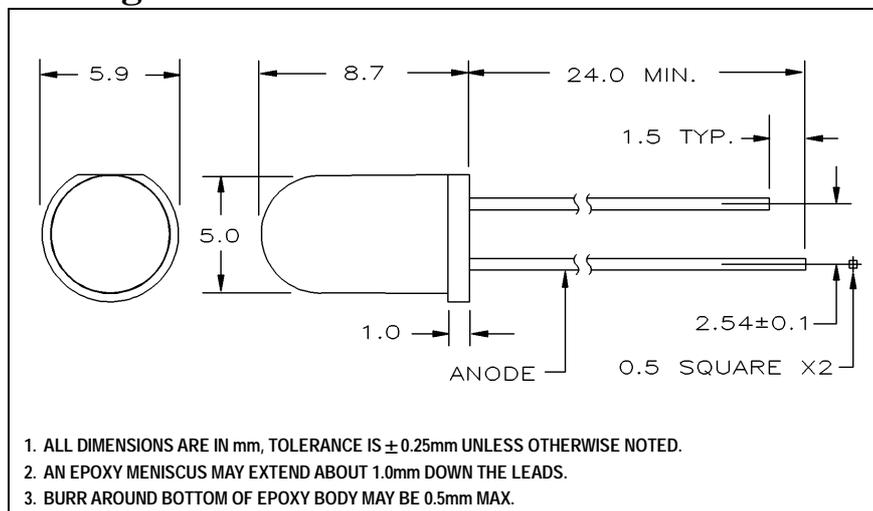
(1) LENS COLOR:

W.C....WATER CLEAR

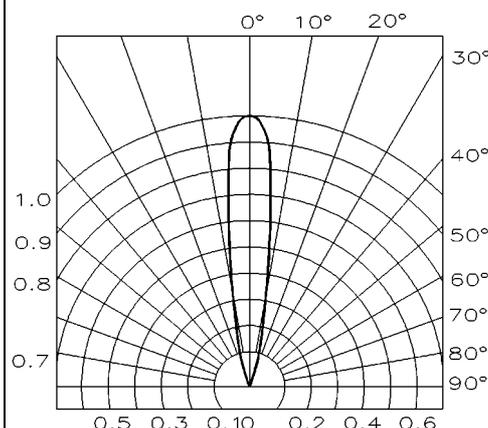
(2) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

(3) ALL ABOVE COMPONENTS ARE CONSIDERED. DEVIATIONS FROM STATED SPECIFICATIONS WILL REQUIRE A NEW PART NUMBER BE ASSIGNED.

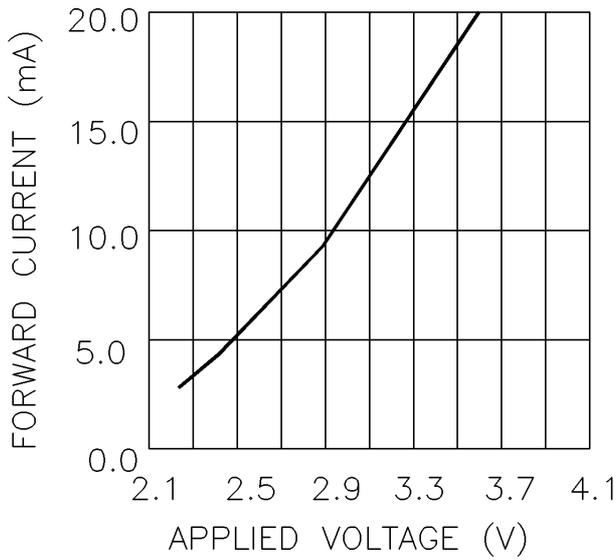
Package Dimensions



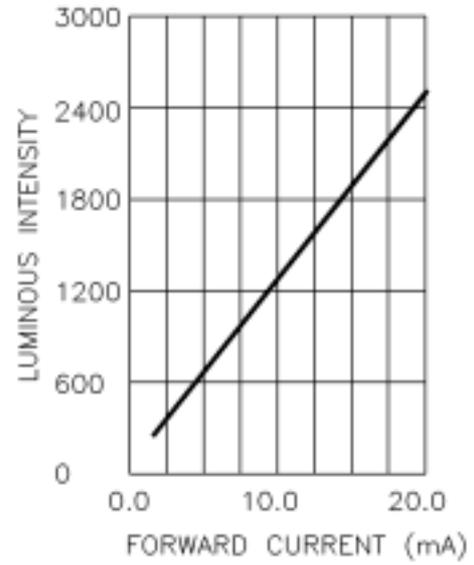
Radiation Pattern



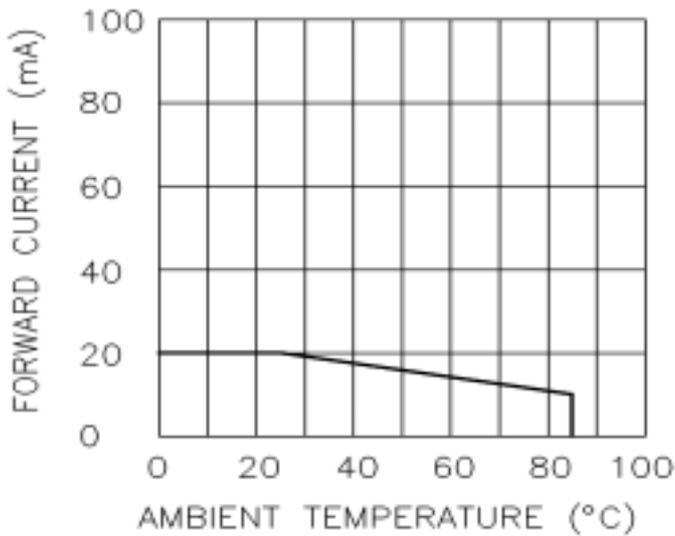
Forward Current vs. Applied Voltage



Luminous Intensity vs. Forward Current



Forward Current vs. Ambient Temperature



Relative Intensity vs. Wavelength

