

Features

- GaN TECHNOLOGY
- HIGH POWER OUTPUT
- 15 DEGREE VIEW ANGLE FOR MAXIMUM LIGHT OUTPUT

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. Ledtech give no other assurance regarding the ability of product to withstand ESD.



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 _p	λ _d					
LT18B3-83-M1A2-P27	GaN	BLUE	W.C.	430±10	460±10	3.8	4.5	75	120	15

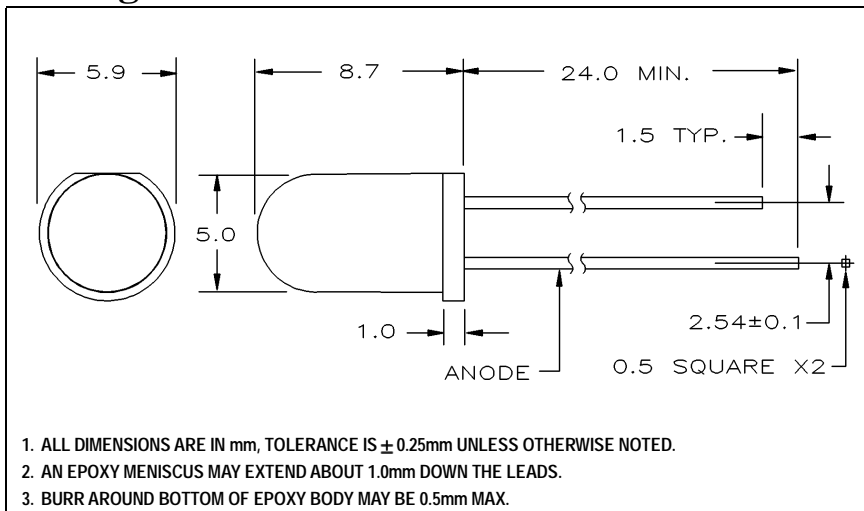
(1) Lens Color:

W.C....Water Clear

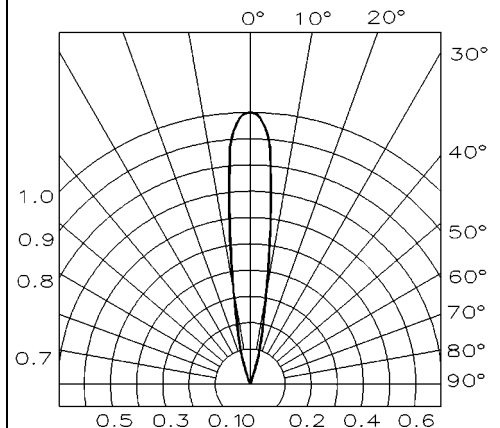
(2) Specifications are subject to change with out notice.

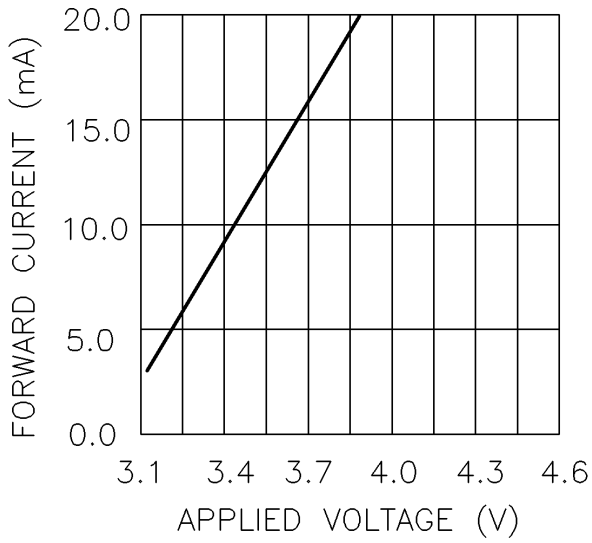
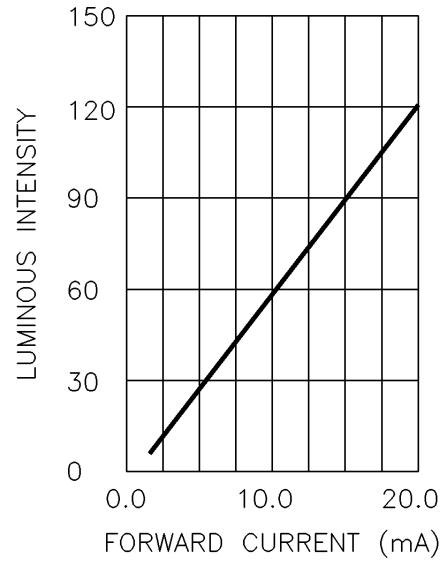
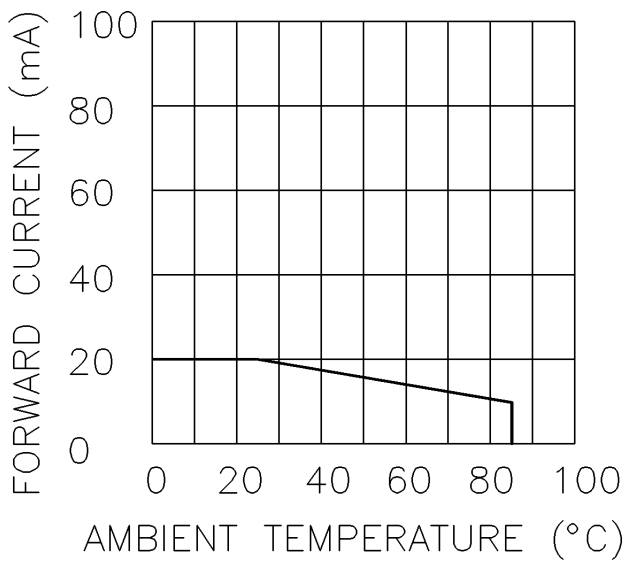
(3) All above components are considered; deviations from stated specifications will require a new part number to be assigned.

Package Dimensions



Radiation Pattern



Forward Current vs. Applied Voltage

Luminous Intensity vs. Forward Current

Forward Current vs. Ambient Temperature

Relative Intensity vs. Wavelength
