

BRIGHT LED ELECTRONICS CORP.

BL-BK83V1

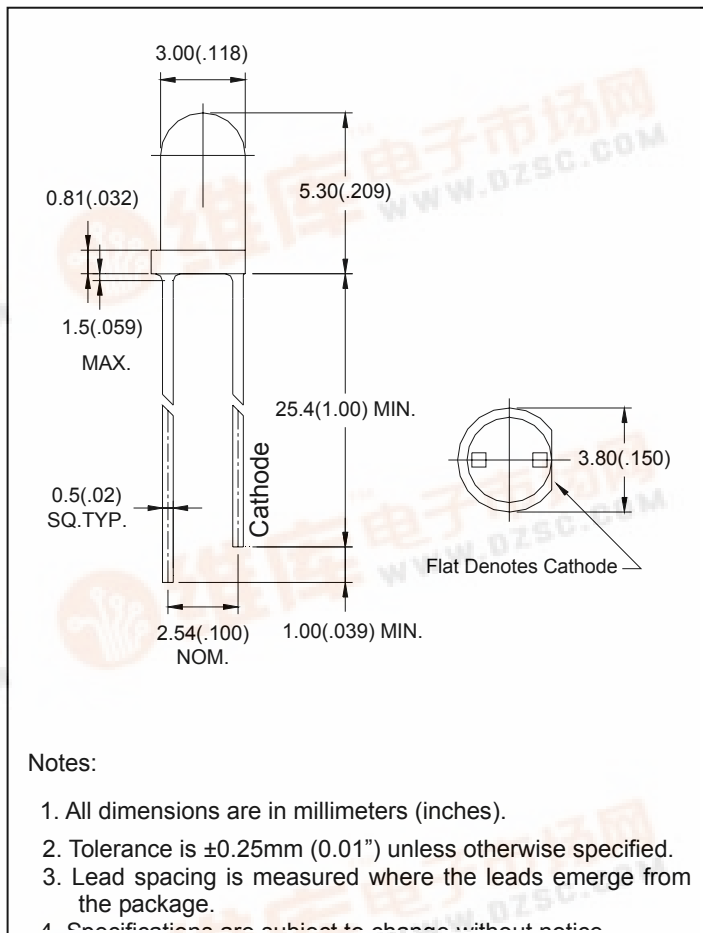
● Features:

1. Chip material: AlGaInP/GaAs
2. Emitted color : Super Yellow
3. Lens Appearance : Water Clear
4. Low power consumption.
5. High efficiency.
6. Versatile mounting on P.C. Board or panel.
7. Low current requirement.
8. 3mm diameter package
9. This product don't contained restriction substance, compliance ROHS standard.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● Package dimensions:



● Absolute maximum ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Power Dissipation	P_d	80	mW
Forward Current	I_F	30	mA
Peak Forward Current ^{*1}	I_{FP}	150	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	$-40^\circ\text{C} \sim 80^\circ\text{C}$	
Storage Temperature	T_{stg}	$-40^\circ\text{C} \sim 85^\circ\text{C}$	
Soldering Temperature	T_{sol}	260°C (for 5 seconds)	

*1 Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

Electrical and optical characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	-	2.2	2.6	V
Luminous Intensity	I_v	$I_F=20\text{mA}$	-	2000	-	mcd
Reverse Current	I_R	$V_R=5\text{V}$	-	-	100	μA
Peak Wave Length	λ_p	$I_F=20\text{mA}$	-	590	-	nm
Dominant Wave Length	λ_d	$I_F=20\text{mA}$	582	-	592	nm
Spectral Line Half-width	$\Delta\lambda$	$I_F=20\text{mA}$	-	15	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	-	25	-	deg

Typical electro-optical characteristics curves

