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Lead (Pb) Free Product – RoHS Compliant

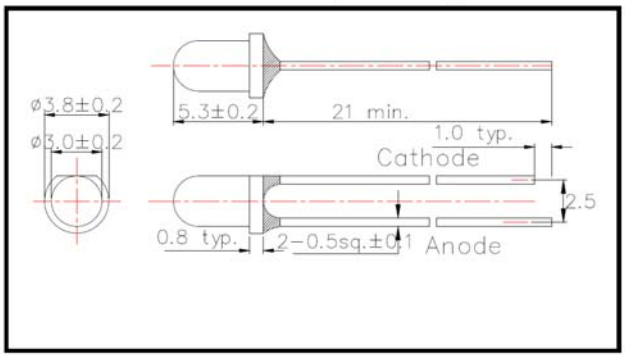
LED430-33 Blue LED Lamp

LED430-33 is an InGaN LED mounted on a lead frame with a clear epoxy lens.
On forward bias it emits a band of visible light, which peaks 430nm.

♦Specifications

1) Product Name	Blue LED Lamp
2) Type No.	LED430-33
3) Chip	
(1) Chip Material	InGaN
(2) Peak Wavelength	430nm typ.
4) Package	
(1) Type	Φ3mm clear molding
(2) Resin Material	Epoxy Resin
(3) Lead Frame	Soldered

♦Outer dimension (Unit: mm)



♦Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P_D	200	mW	Ta=25°C
Forward Current	I_F	50	mA	Ta=25°C
Reverse Voltage	V_R	5	V	Ta=25°C
Operating Temperature	T_{OPR}	-30 ~ +85	°C	
Storage Temperature	T_{STG}	-30 ~ +100	°C	
Soldering Temperature	T_{SOL}	265	°C	

‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C

♦Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F=20mA		3.4	4.0	V
Reverse Current	I_R	V_R=5V			10	uA
Total Radiated Power	P_O	I_F=20mA		4.5		mW
Brightness	I_V	I_F=20mA		300		mcd
Peak Wavelength	λ_P	I_F=20mA	425	430	435	nm
Half Width	$\Delta\lambda$	I_F=20mA		25		nm
Viewing Half Angle	$\theta_{1/2}$	I_F=20mA		±15		deg.

‡Brightness is measured byTektronix J-16.
‡Total Radiated Power is measured by Photodyne #500