



LED435-30M32

stem type LED with ball lens

LED435-30M32 is an InGaN LED mounted on TO-18 stem with ball glass lens, being designed for sensing applications.

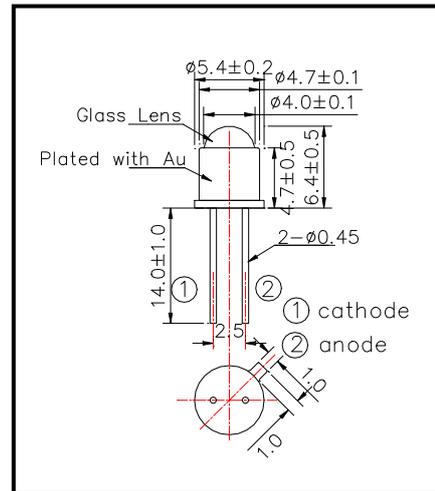
On forward bias it emits a spectral band of radiation, which peaks at 435 nm.

Features

High Power
 High Reliability

Specifications

Product Name	LED Lamp
Type No.	LED435-30M32
Chip Spec.	
Material	InGaN
Peak Wavelength	435 nm
Package	
Type	TO-18 stem
Lens	Ball Glass Lens



Absolute Maximum Ratings

Item	Symbol	Maximum Rated Value	Unit	Ambient Temperature
Power Dissipation	P _D	120	mW	T _a = 25°C
Forward Current	I _F	30	mA	T _a = 25°C
Pulse Forward Current	I _{FP}	100	mA	T _a = 25°C
Reverse Voltage	V _R	5	V	T _a = 25°C
Operating Temperature	T _{OPR}	-30 ~ +85	°C	
Storage Temperature	T _{STG}	-30 ~ +100	°C	
Soldering Temperature	T _{SOL}	260	°C	

‡Pulse Forward Current condition: Duty = 1% and Pulse Width = 10µs

‡Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

Electro-Optical Characteristics

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V _F	I _F = 20 mA	3.2	3.3	3.4	V
Reverse Current	I _R	V _R = 5 V			10	µA
Total Radiated Power	P _O	I _F = 20 mA	2.1	2.2	2.3	mW
Brightness	I _V	I _F = 20 mA	-	-	-	mcd
Radiant Intensity	I _E	I _F = 20 mA	-	-	-	mW/sr
Peak Wavelength	λ _P	I _F = 20 mA	430	435	440	nm
Spectrum Half Width	Δλ	I _F = 20 mA		15		nm
Viewing Half Angle	2θ _{1/2}	I _F = 20 mA		±10		deg.

‡Total Radiated Power is measured by Photodyne #500

‡Radiant Intensity is measured by Tektronix J-6512