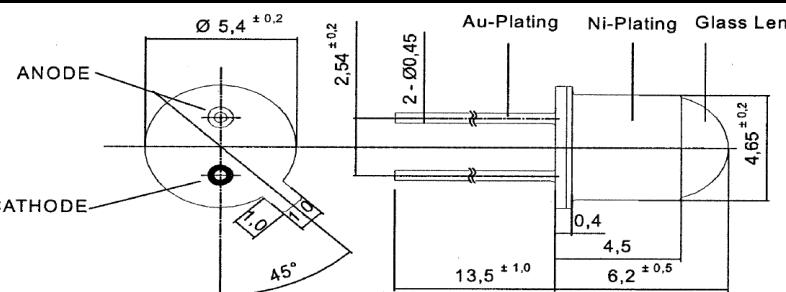


Data sheet
Blue LED
EOLD-470-013-2

Rev. 03, 2017

Radiation	Type	Case
Blue	InGaN	TO-46 with lens cap

Diagram	Description:
	High power, high-speed, narrow beam angle, high reliability

Maximum Ratings

 T_{amb}= 25°C, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I _F	30	mA
Peak forward current	t _p ≤ 100 µs, D=0.1	I _{FM}	300	mA
Reverse voltage	I _R = 100 µA	V _R	5	V
Power dissipation		P _D	120	mW
Operating temperature range		T _{amb}	-20 to +85	°C
Storage temperature range		T _{stg}	-30 to +105	°C
Lead soldering temperature	< 5 s, 3 mm from case	T _{slg}	260	°C
Junction temperature		T _J	100	°C

Optical and Electrical Characteristics

 T_{amb}= 25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 20 mA		3.6	4.2	V
Reverse current	I _R	V _R = 5 V			100	µA
Radiant power	Φ _e	I _F = 20 mA	2	4		mW
Peak wavelength	λ _p	I _F = 20 mA		470		nm
FWHM	Δλ _{0,5}	I _F = 20 mA		35		nm
Viewing angle	φ	I _F = 20 mA		12		deg.
Temperature coefficient	TCΦ _e	I _F = 10 mA		-0.2		%/K
Temperature coefficient	TCV _F	I _F = 10 mA		-3.0		mV/K

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