



### Features

- Laser diode with multi-quantum-well structure
- Uncooled operation at -20~+85 °C
- For 50/125um & 62.5/125um Multi-mode Application
- High Optical Power
- High Speed

### Packaging

- 8 Pin Package with ST Port

### Application

- Design for fiber optic networks
- RoHS Compliant available

### Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit	Conditions
Storage Temperature	T <sub>stg</sub>	-40 ~ 125		-
Operating Temperature	T <sub>opr</sub>	-20 ~ 85		-
Lead Solder Temperature		260		10 Seconds
Continuous Forward Current		12	mA	-
Continuous Reverse Voltage		5	V	10 μA

**(All optical data refer to coupled 50/125 μm & 62.5/125 μm MM fiber)**

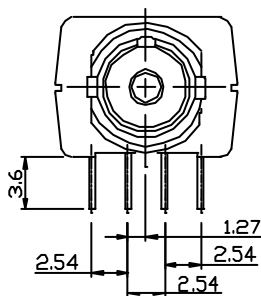
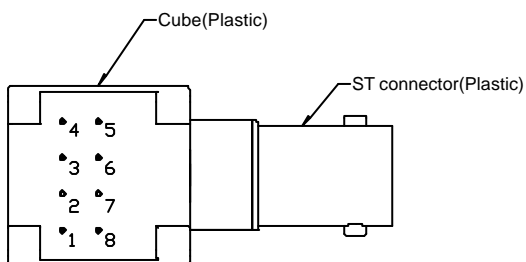
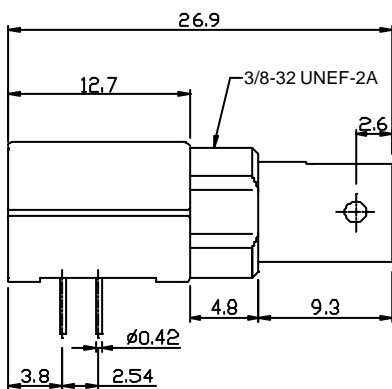
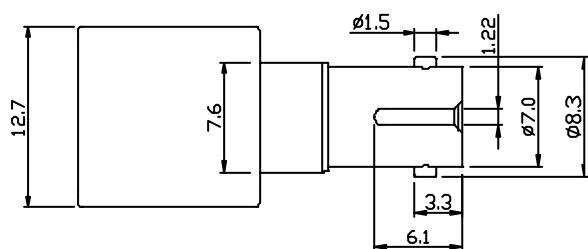
**Optical and Electrical Characteristics (T<sub>c</sub>=25 °C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Threshold Current	I <sub>th</sub>	-	2	3	mA	-
Fiber Output Power	P <sub>f</sub>	-16 -15	- -	-11 -10	dBm	I <sub>F</sub> = 10mA
Peak Wavelength		830	850	860	nm	I <sub>F</sub> = 6mA
Spectral Width (RMS)		-	-	0.85	nm	I <sub>F</sub> = 6mA
Forward Voltage	V <sub>F</sub>	1.6	1.8	2.1	V	I <sub>F</sub> = 6mA
Rise/Fall Time	T <sub>r</sub> / T <sub>f</sub>	-	-	1	ns	I <sub>bias</sub> =I <sub>th</sub> , 10%~90%
Breakdown Voltage	V <sub>BD</sub>	5	14	-	V	I <sub>R</sub> = 10 μA
Series Resistance	R <sub>S</sub>	30	40	65		I <sub>F</sub> = 6mA

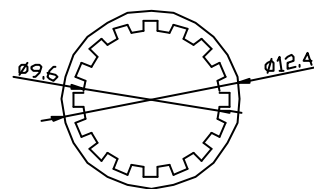
## Pinout Assignment

PIN	FUNCTION
1	N.C.
2	Anode
3	Cathode
4	N.C.
5	N.C.
6	Anode
7	Anode
8	N.C.

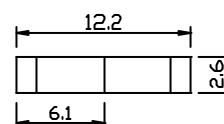
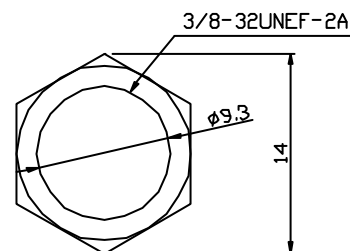
## Mechanic Dimension (Units in mm)



WASHER (Metal)



SCREW NUT (Metal)



## Ordering Information

# C-85-1315T-08-XX

RoHS Compliant

Blank/G5/GR

Blank = RoHS non-compliant product

G5 = RoHS 5/6-compliant product (lead exemption)

GR = Full RoHS compliant product (no exemption)

## Warnings

**Handling Precautions:** This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

**Laser Safety:** Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.

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