

SD-3300 LED Modules

1310 nm Light Emitting Diode with Multi-Mode Fiber Pigtail

FEATURES

- -40°C to 85°C Operating Temperature
- High Efficiency
- Hermetically sealed 3-pin metal case
- Multi-mode Pigtail Package with SC/FC/ST Connector

APPLICATIONS

- FTTX
- FDDI
- Fast Ethernet

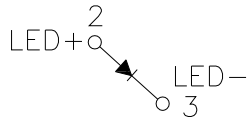
DESCRIPTION

The SD-3300 series are 1.3 μm band infrared Light Emitting diodes with multi-mode fiber pigtail for use as the light sources in optical fiber communications.

ELECTRICAL AND OPTICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$, CW, $I_f=60\text{mA}$)						
Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Po	Fiber Optical Coupled Power	62.5/125 μm MM fiber	30	--	--	μW
λ	Center Wavelength		1260	1310	1360	nm
$\Delta\lambda$	Spectral Width		--	--	180	nm
V _F	Forward Voltage			1.2	1.7	V
BW	Band width		120	--	--	MHz
Tr/Tf	Rise/Fall Time	10% to 90%	--	--	2.5	ns
$\Delta P_o/\Delta T$	Output Power over Temperature	-40°C to 85°C	--	--	± 3	dB

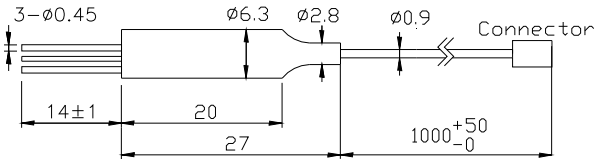
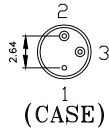
ABSOLUTE MAXIMUM RATINGS ($T_c=25^\circ\text{C}$)			
Symbol	Parameter	Ratings	Unit
V _R	Reverse Voltage	2	V
I _F	Forward Current	150	mA
	Soldering	250°C/10sec	
T _{opr}	Operating Temperature	-40~+85	°C
T _{stg}	Storage Temperature	-40~+85	°C

MECHANICAL DIMENSION (mm) and PIN ASSIGNMENT

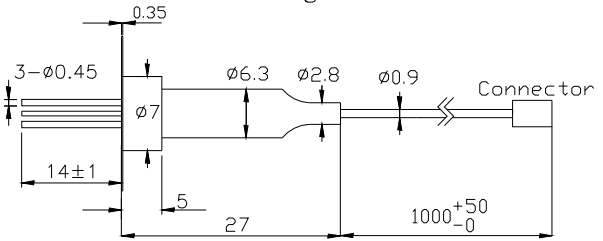
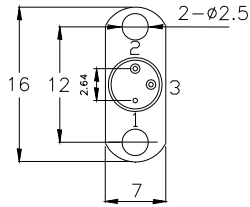


1 CASE

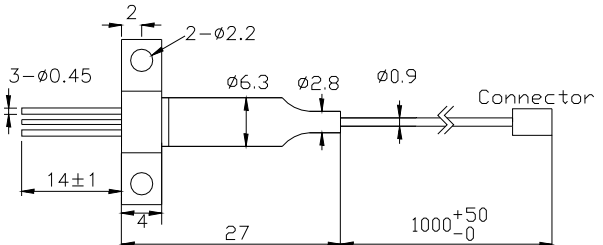
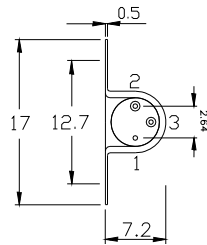
PIN	PIN Assignment
1	CASE
2	LED+
3	LED-



Flangeless



Vertical Flange



Horizontal Flange

Note: 1. Specifications subject to change without notice.
2. Other PIN assignment is available upon request.

ORDER INFORMATION

Part No.: S D - 3 3 0 0 - □ □

Code	Flange
V	Vertical
H	Horizontal
X	No Flange

Code	Connector
S	SC/PC
F	FC/PC
T	ST/PC
L	LC/PC

Revision History

Version	Subject	Release Date
1.0	Initial datasheet	2001/10/20