OKI Semiconductor

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OL3300W

1310 nm/1 mW SMT Laser Diode Module with Single Mode Fiber

GENERAL DESCRIPTION

The OL3300W surface mount type LD module is a 1.3 μm, InGaAsP/InP laser diode coupled to a single mode fiber with a pigtail. It is designed for STM-1 L-1.1 (OC-3 LR-1).

ABSOLUTE MAXIMUM RATINGS

(Ta = 25°C, unless otherwise noted)

Parameter	Symbol	Rating	Unit
Fiber Output Power	PF	7	mW
Laser Diode Reverse Voltage	VR (LD)	2	V
Photo Diode Forward Current	IF	10	mA
Photo Diode Forward Voltage	VR (PD)	15	V
Operating Temperature	Ta	–40 to +85	°C
Storage Temperature	Tstg	–40 to +85	°C
Lead Soldering Temperature (10 sec)	Tsid	260	°C

OPTICAL AND ELECTRICAL CHARACTERISTICS

(Ta = –40 to 85°C, unless otherwise specified)

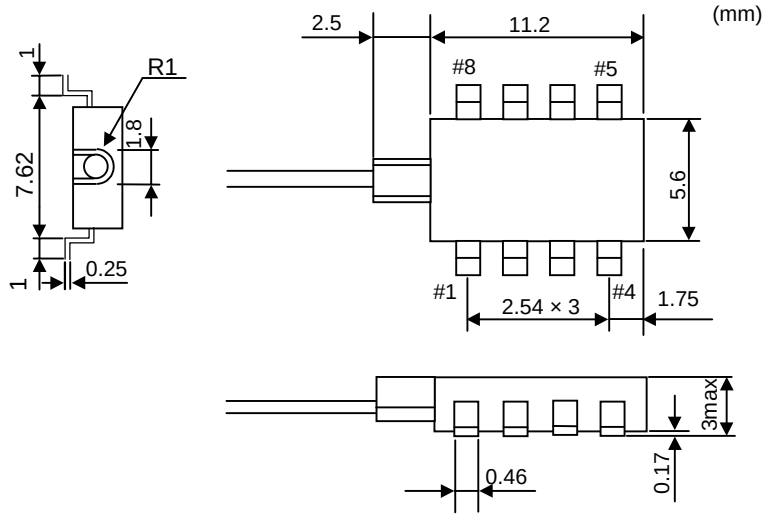
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Fiber Output Power	P_F	CW	1	—	—	mW
Threshold Current	Ith	—	—	—	40	mA
Center Wavelength	λc	Pf = 1 mW, RMS Ta = 0 to 85°C	1280	—	1335	nm
Spectral Width	σ	Pf = 1 mW, RMS (σ)	—	—	4	nm
LD Forward Voltage	V_F	Pf = 1 mW	—	—	1.5	V
Rise and Fall Time	tr, tf	10 to 90%	—	—	0.5	ns
Monitor Current	Im	Pf = 1 mW	100	—	400	μA
Tracking Error	Er	Im = const. @ Pf = 1 mW (25°C)	—	—	1.0	dB

CONNECTOR AND FIBER SPECIFICATIONS

Parameter	Specifications	Unit
Type	SM	—
Mode Field Diameter	9 ± 1	μm
Code Diameter	0.9	mm
Bending Radius	20 (min)	mm
Length	Options	—
Connector	FC, SC, MUJ, etc.	—
Color	Yellow	—

OUTLINE DRAWING

All dimensions in millimeters
Package No. (Unit: mm)



PIN DESCRIPTIONS

No.	FUNCTION
1	CASE GROUND
2	CASE GROUND
3	CASE GROUND
4	PD CATHODE
5	PD ANODE
6	LD CATHODE
7	LD ANODE
8	CASE GROUND

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