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FU-43SLD-2

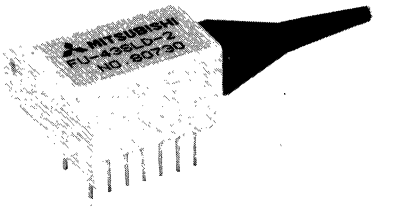
1.3 μ m LD Module with Singlemode Fiber Pigtail

Module type FU-43SLD-2 has been developed for coupling a singlemode optical fiber and a 1.3μm wavelength InGaAsP LD (Laser diode). The package is incorporated with dual-in-line pins for electrical connection.

This module is suitable to light source for short and medium haul digital local area network systems.

FEATURES

- High-speed response
- Emission wavelength is in 1.3μm band
- Low threshold current (10mA typ.)
- Dual-in-line package
- With photodiode for optical output monitor
- Diodes are hermetically sealed

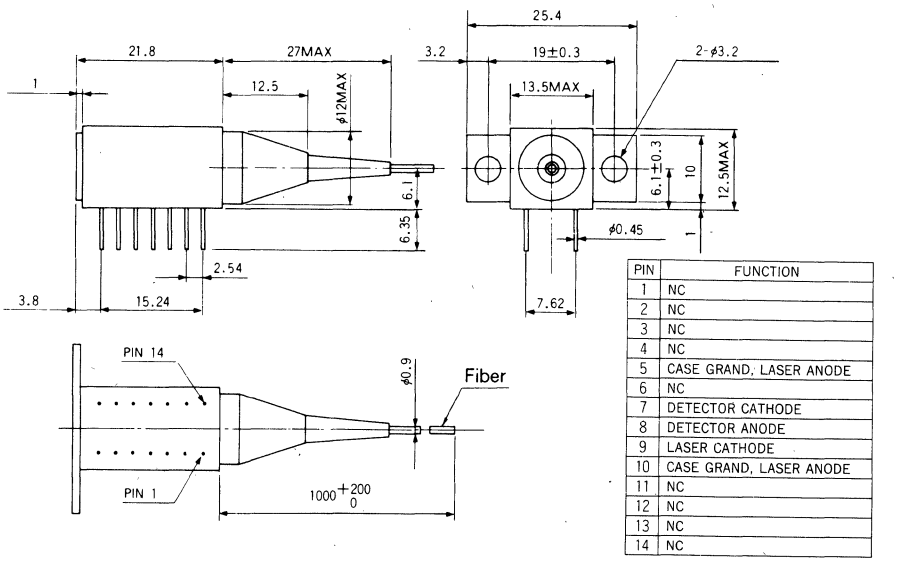


FU-43SLD-2

ABSOLUTE MAXIMUM RATINGS (Tc=25℃)

Items		Symbols	Conditions	Ratings	Units
Laser diode	Optical output power from fiber end	P_F	CW	0.3	mW
	Reverse Voltage	V_{RL}	–	2	V
Photodiode for monitoring	Reverse Voltage	V_{RD}	–	15	V
	Forward Current	I_{FD}	–	2	mA
Operating case temperature		T_C	–	0~65	℃
Storage temperature		T_{stg}	–	– 40~70	℃

OUTLINE DRAWINGS Unit (mm)



PIN	FUNCTION
1	NC
2	NC
3	NC
4	NC
5	CASE GRAND, LASER ANODE
6	NC
7	DETECTOR CATHODE
8	DETECTOR ANODE
9	LASER CATHODE
10	CASE GRAND, LASER ANODE
11	NC
12	NC
13	NC
14	NC

FU-43SLD-2

MITSUBISHI ELECTRIC

CHARACTERISTICS (T_C=25°C, unless otherwise noted)

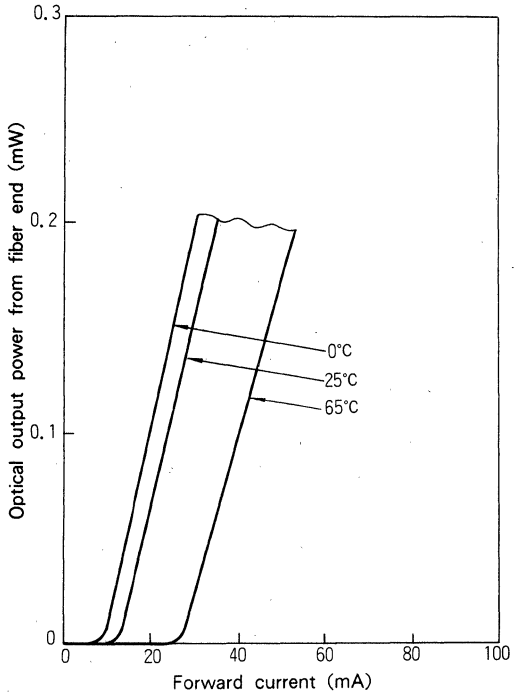
Items	Symbols	Conditions	Min.	Typ.	Max.	Units
Threshold current	I_{th}	CW	–	10	30	mA
Operating current	I_{op}	CW	–	25	45	mA
Operating voltage	V_{op}	CW, $I_F = I_{op}$ (Note 1)	–	1.2	1.6	V
Optical output power from fiber end	P_F	CW, $I_F = I_{op}$	0.1	0.2	–	mW
Central wavelength	λ_C	CW, $I_F = I_{op}$	1270	1300	1330	nm
Spectral width (FWHM)	$\Delta\lambda$	CW, $I_F = I_{op}$	–	3	–	nm
Rise and fall times	t_r, t_f	$I_B = I_{th}$, 10~90% (Note 2)	–	0.3	–	ns
Tracking error (Note 3)	E_r	T_C = 0~65°C, APC	–	0.4	–	dB
Differential efficiency	η	–	–	0.013	–	mW/mA
Monitor current	I_{mon}	CW, $I_F = I_{op}$, V_{RD} = 5V	0.1	0.6	–	mA
Dark current (Photodiode)	I_D	V_{RD} = 5V	–	0.1	1	μA
Capacitance (Photodiode)	C_t	V_{RD} = 5V, f = 1MHz	–	10	–	pF

Note 1) I_F : Forward current (LD)
Note 2) I_B : Bias current (LD)
Note 3) $E_r = MAX\left|10 \cdot \log \frac{P_F}{P_F\ (25℃)}\right|$

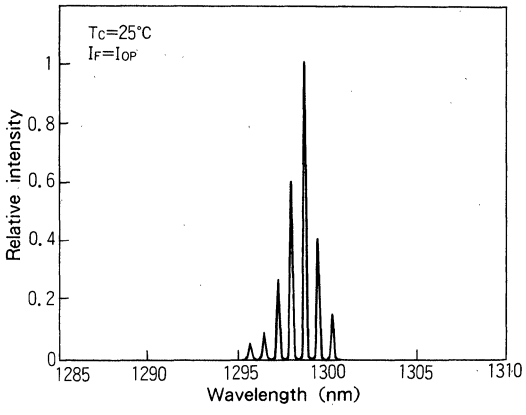
FIBER PIGTAIL SPECIFICATIONS

Items	Specifications	Units
Type	SM	–
Mode field dia.	10 ± 1	μm
Cladding dia.	125 ± 2	μm
Jacket dia.	0.9	mm

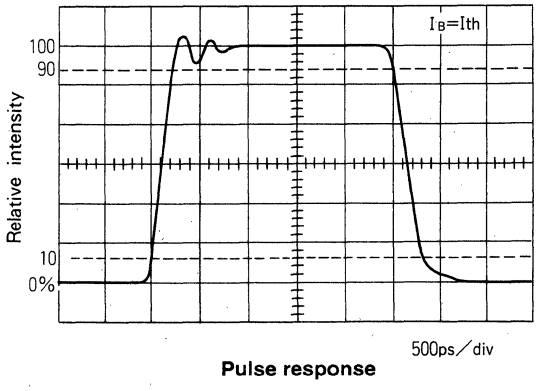
EXAMPLE OF CHARACTERISTICS



Forward current vs. Optical output power



Light-emission spectrum



Pulse response

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