

1310nm FP LD To-can ATO-0100X

■ Features

- To-56 Package
- Low Threshold Current
- Modulation Capability up to 1.25Gbps
- Wide Operating Temperature Range

■ Applications

- Fiber Channel
- Gigabit Ethernet
- ATM Transceiver Modules and High-Speed System
- Data Communication and Telecommunication Application



■ Absolute Maximum Ratings

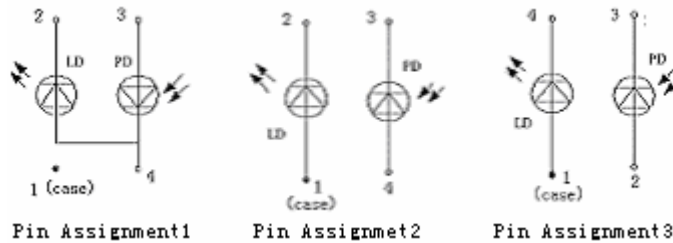
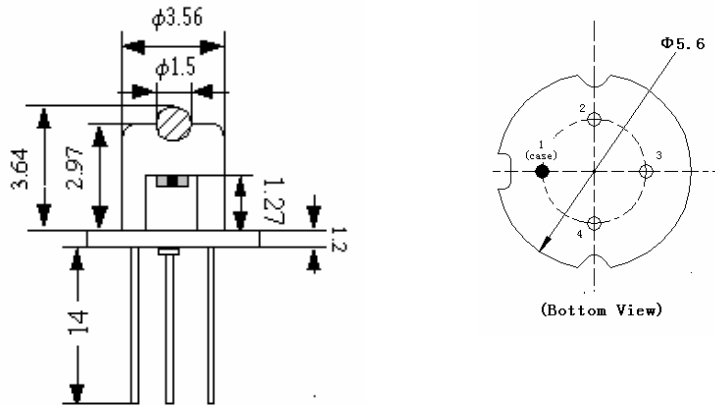
Parameter	Symbol	Min.	Max.	Unit
Reverse Voltage (LD)	$V_{r(LD)}$	-	2	V
Reverse Voltage (PD)	$V_{r(PD)}$	-	20	V
Operating Temperature	T_{op}	-40	85	°C
Storage Temperature	T_{stg}	-40	100	°C

■ Optical and Electrical Characteristics (T=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Center Wavelength	λ_c	1290	1310	1330	nm	5mW
Output Power	P_o	-	5	10	mW	CW, I=I _{th} +20mA
Threshold Current	I_{th}	-	10	15	mA	-
Operating Current	I_{op}	-	25	35	mA	5mW
Forward Voltage	V_f	-	1.2	1.5	V	5mW
Slope Efficiency	η	0.2	0.3	-	W/A	5mW
Spectra Width	$\Delta\lambda$	-	-	4	nm	5mW (FWHM)
Rise / Fall Time	t_r/t_f	-	0.12	0.24	ns	20~80%
Beam Divergence	θ_{\parallel}	-	8	-	deg	5mW
	θ_{\perp}	-	15	-	deg	5mW
Monitor Current (PD)	I_m	0.1	0.5	-	mA	$V_{rd}=5V$ $R_l=10\Omega$
Dark Current (PD)	I_d	-	-	0.1	μA	$V_{rd}=5V$
PD Capacitance	C_t	-	15	25	pF	$V_{rd}=10V, f=1MHz$

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■ Pin Assignment and Dimension (mm)



■ Ordering Information

Part No.	Bandwidth	Pin Assignment
ATO-01001	622Mbps	1
ATO-01002	622Mbps	2
ATO-01003	622Mbps	3
ATO-01004	1.25Gbps	1
ATO-01005	1.25Gbps	2
ATO-01006	1.25Gbps	3