■ Features

a. To-56 Package
b. Low Threshold Current
c. Modulation Capability up to 1.25Gbps
d. Wide Operating Temperature Range

■ Applications

a. Fiber Channel
b. Gigabit Ethernet
c. ATM Transceiver Modules and High-Speed System
d. 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
OperatingTemperature	T_{op}	-40	85	^{o}C
Storage Temperature	T_{stg}	-40	100	^{o}C

■ Optical and Electrical Characteristics (T=25℃)

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=Ith+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	$\theta\parallel$	-	8	-	deg	5mW
	$\theta\perp$	-	15	-	deg	5mW
Monitor Current (PD)	I_m	0.1	0.5	-	mA	V_{rd}=5V R_l=10Ω
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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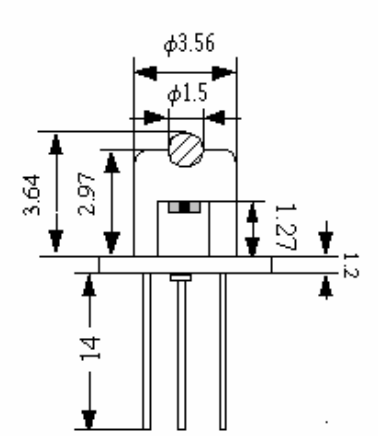
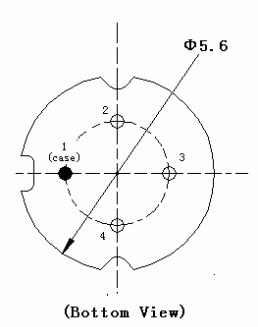
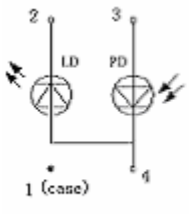
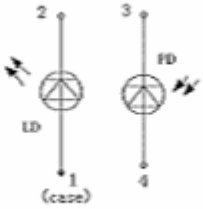
■ Pin Assignment and Dimension (mm)



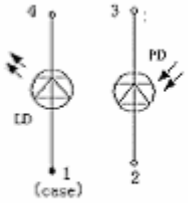




Pin Assignment1



Pin Assignmet2



Pin Assignment3

■ 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

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