

OC-3 PIN-TIA ROSA

Features

- Long Wavelength Operation
- Bit rate: ~155M bps
- Low voltage power supply: 3.3V
- Packaging: TO-46 with 4-pins
- Internal AGC Circuit
- Differential output
- High Reliability
- High Sensitivity

Applications

- Telecommunication
- Data communication

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN	MAX	UNITS
Operating Ambient Temperature Range	Ta	-40	85	°C
Storage Case Temperature	Tstg	-40	100	°C
Lead Solder Temperature (<10 seconds)	Stemp		260	°C

Opto - Electrical Characteristic

Tc=-40~+85°C, Vcc=3.1~3.5V, unless otherwise specified

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Supply Current	ICC	no loads	-	-	35	mA
Gain @ 1Mbps -> Differential	Gd	Rload=100 ohm, $\lambda = 1310 \text{ nm}$	0.18		120	mV/ μ W
Small-Signal Bandwidth	BW	$\lambda = 1300 \text{ nm}$, Pf = 10uW	115			MHz
Low-Frequency Cut off	LF	$\lambda = 1310 \text{ nm}$			50	kHz
Output Resistance	Rout			50		Ohm
Saturation Power	PSat	$\lambda = 1310 \text{ nm}$	-3			dBm
Wavelength	λ		1270		1620	nm
Sensitivity	Sen	$\lambda = 1300 \text{ nm}$, 155 Mbps, BER 10^{-10}			-36	dBm

Package information

