TMC-1C41-301

3.3V 125 MHz InGaAs PIN plus AGC Pre-amplifier

FEATURES:

- Industry standard TO-46 package with cap lens.
- Optimized for fiber optic application.
- Suitable for 100/155 Mbps applications.

ELECTRO-OPTICAL CHARACTERISTICS:

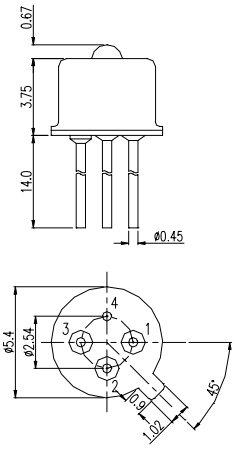
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V_{CC}	3.0	3.3	3.6	V	
Supply Current	I_{CC}			25	mA	no loads
DC Output Voltage	V_{ODC}		1.5		V	
Differential Output Voltage	V_d			1	V	λ = 1300 nm, 0 dBm
Data out Rise Time (10 - 90%)	t_r			4.5	ns	λ = 1300 nm, P_f = 10uW
Data out Fall Time (10 - 90%)	t_f			4.5	ns	λ = 1300 nm, P_f = 10uW
Output Resistance	R_{out}		50		Ohm	
Bandwidth	BW	115			MHz	λ = 1300 nm, P_f = 10uW
Saturation Power	P_{Sat}	-3			dBm	λ = 1300 nm, 155 Mbps
Gain @ 10Mbps Differential	G	0.06		77	mV/uW	λ=1300 nm
Sensitivity				-35	dBm	λ = 1300 nm, 155 Mbps, BER 10^{-10}

ABSOLUTE MAXIMUM RATINGS:

PARAMETERS	MIN	MAX	UNIT	CONDITIONS
Storage Temperature	-40	100	°C	
Operating Temperature	-40	85	°C	
Lead Solder Temperature		260	°C	10 seconds

OUTLINE DIMENSIONS:

UNIT:mm



Pinout
1.Vcc
2.$\overline{\text{Dout}}$
3.Dout
4.Gnd