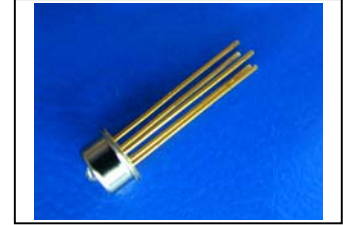


TMC-1C51-758

155Mbps InGaAs PIN plus AGC Pre-amplifier

FEATURES:

- Industry standard TO-46 package with short cap lens and tab-less.
- Optimized for fiber optic application.
- Suitable for long wavelength 100/155Mbps application.
- Photocurrent monitoring available.
- Supports 3.3V and 5.0V applications.



ELECTRO-OPTICAL CHARACTERISTICS: (Typical values are at +3.3V@ 25°C)

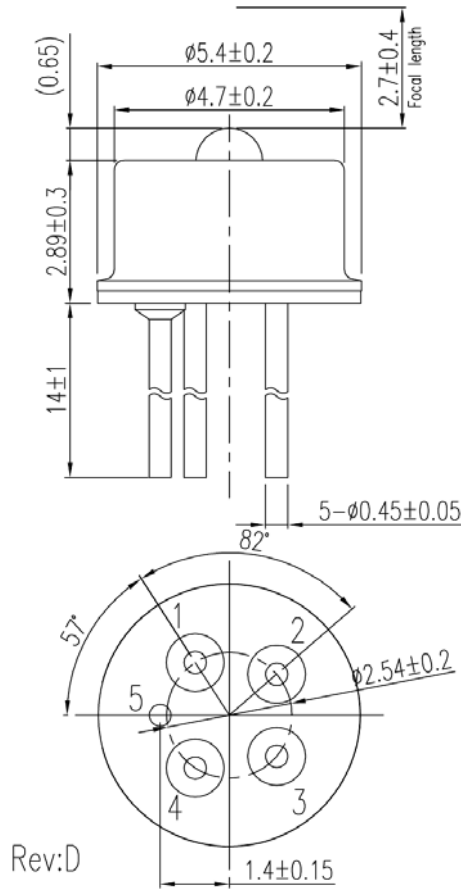
PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	TEST CONDITIONS
Power Supply	V _{CC}	3.0	3.3	5.5	V	
Supply Current	I _{CC}			36	mA	no loads
Differential Responsivity	R _d	24		54	mV/μW	R _{load} = 100ohm, P = -33dBm, λ=1310nm
Single Ended Responsivity	R _s	12		27	mV/μW	R _{load} = 50ohm, P = -33dBm, λ=1310nm
Small-Signal Bandwidth	BW	115			MHz	
Rise / Fall Time(10 % ~ 90 %)	tr/tf			4.5	ns	P = -33dBm, λ=1310nm
Saturation Power	P _{Sat}	0			dBm	
Single Ended Output Impedance	R _O		50		ohm	
Wavelength	λ	1260		1620	nm	
Sensitivity			-38.5	-37.0	dBm	λ=1310nm,@155.52Mbps, PRBS23, BER=1E-10

ABSOLUTE MAXIMUM RATINGS:

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

OUTLINE DIMENSIONS:

• Unit: mm

**Pinout:**

Pin no.	Function
1	Dout(+)
2	Vcc
3	Isink
4	Dout(-)
5	Gnd