ABORN ELECTRONICS
AN OPTOELECTRONIC COMPANY

Fiber Optic Integrated Digital Receiver

AFD 1000 AFD 2000 AFD 3000 AFD 5000

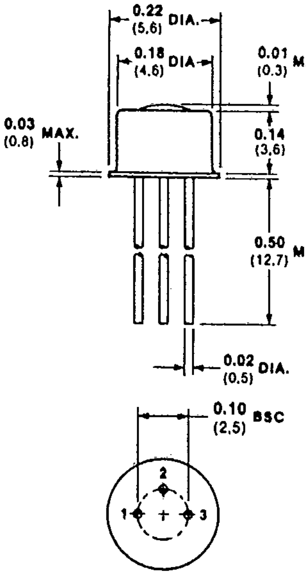
Optoelectronics Products

Description

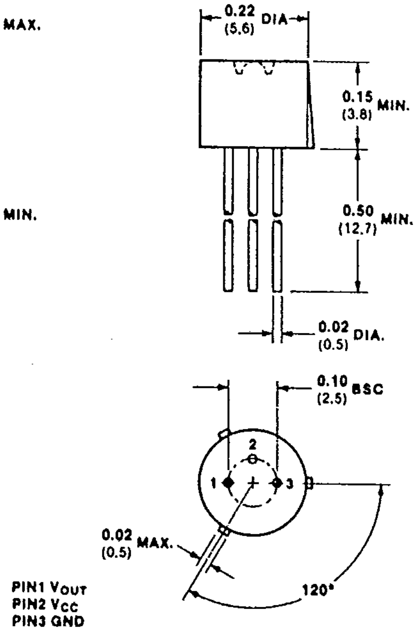
This receiver is monolithic integrated circuit containing a photodiode, amplifier, and Schmitt trigger driving an open collector Schottky transistor providing a LSTTL/TTL compatible output from a digital light input signal emitted from a fiber optic cable. Directly compatible with the Amp, Amphenol, and OFTI connector systems, good EMI/RFI immunity is provided. Available in a TO-18 window can, plastic lensed cap, FOAC, and pig tailed packages.

- OPERATES ON SINGLE 5.0V SUPPLY
- SIMPLE THREE PIN PACKAGE
- DC TO 10 Mb/s DATA RATE NRZ (5.0 MHz SQ. WAVE)
- LOW INPUT TRIGGER POWER
- HIGH NA, OPTICAL PORT
- MAY BE USED WITH AFExxxx EMITTERS
- BUILT IN HYSTERISIS
- LOW NOISE: 10^{-9} BER
- LOW PROFILE IN RECOMMENDED CONNECTOR <.300" HIGH
- OPEN COLLECTOR OUTPUT

Package Outline



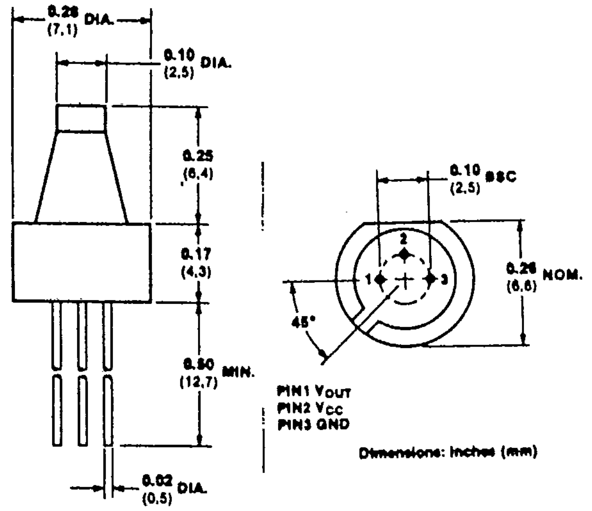
AFD 2000



Dimensions: Inches (mm)

AFD 3000

AFD 1000



Absolute Maximum Ratings

(No Derating Required Up to 70°C)

Maximum Temperature

Operating Temperature	0°C to +70°C
Storage Temperature	−55°C to +125°C
Pin Temperature (Soldering, 10 s) (1.6 mm below seating plane)	260°C

Maximum Power Dissipation

Output Collector Power Dissipation	85 mW

Maximum Voltage and Currents

V_{CC}	Supply Voltage	7.0 V
I_{OUT}	Output Current	50 mA
V_{OUT}	Output Voltage	7.0 V

AFD 5000

MECHANICAL CHARACTERISTICS Dimentions Are Typical And In cm (Inch)