

F5D1/2/3 AIGaAs INFRARED EMITTING DIODE

PACKAGE DIMENSIONS 0.209 (5.31) 0.184 (4.67) 0.030 (0.76) 0.255 (6.48) NOM 1.00 (25.4) MIN ANODE (CASE) -0.100 (2.54) 0.050 (1.27) 0.040 (1.02) Ø0.020 (0.51) 2X 0.040 (1.02) NOTES:

- 1. Dimensions for all drawings are in inches (mm).
- 2. Tolerance of ± .010 (.25) on all non-nominal dimensions unless otherwise specified.

DESCRIPTION

 The F5D series is a 880 nm LED in a narrow angle, TO-46 package.



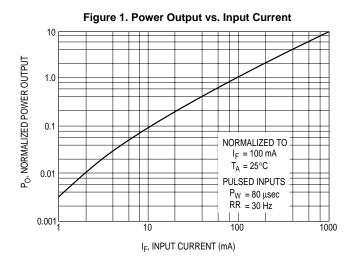
FEATURES

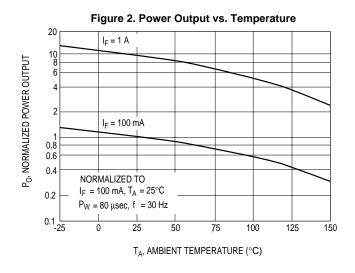
- · Good optical to mechanical alignment
- Mechanically and wavelength matched to the TO-18 series phototransistor
- · Hermetically sealed package
- High irradiance level
- 1. Derate power dissipation linearly 1.70 mW/°C above 25°C ambient.
- 2. Derate power dissipation linearly 13.0 mW/°C above 25°C case.
- 3. RMA flux is recommended.
- 4. Methanol or isopropyl alcohols are recommended as cleaning agents.
- 5. Soldering iron tip 1/16" (1.6mm) minimum from housing.
- 6. As long as leads are not under any stress or spring tension
- 7. Total power output, P_O , is the total power radiated by the device into a solid angle of 2 π steradians.

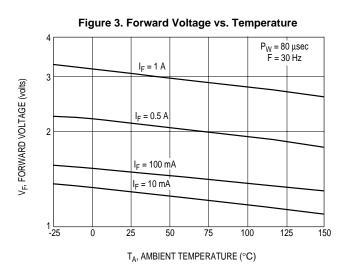
Parameter	Symbol	Rating	Unit
Operating Temperature	T _{OPR}	-65 to +125	°C
Storage Temperature	T _{STG}	-65 to +150	°C
Soldering Temperature (Iron)(3,4,5 and 6)	T _{SOL-I}	240 for 5 sec	°C
Soldering Temperature (Flow)(3,4 and 6)	T _{SOL-F}	260 for 10 sec	°C
Continuous Forward Current	I _F	100	mA
Forward Current (pw, 10µs; 100Hz)	I _F	3	Α
Forward Current (pw, 1µs; 200Hz)	I _F	10	Α
Reverse Voltage	V _R	3	V
Power Dissipation (T _A = 25°C) ⁽¹⁾	P _D	170	mW
Power Dissipation (T _C = 25°C) ⁽²⁾	P _D	1.3	W

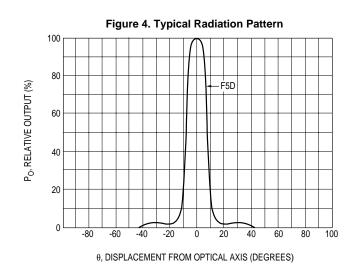


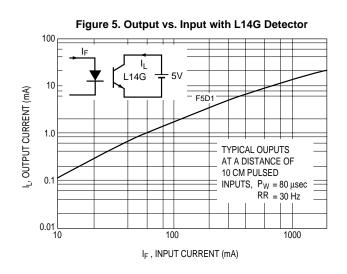
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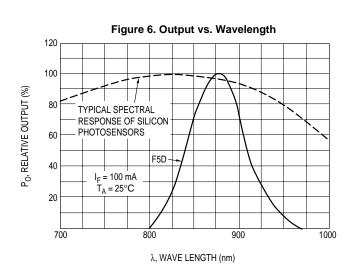














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