1F1X SERIES PHOTOFLASH FAST RECOVERY RECTIFIER

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1F10 THRU 1F18

PHOTOFLASH FAST RECOVERY RECTIFIER



REVERSE VOLTAGE: 1000 to 1800 VOLTS FORWARD CURRENT: 0.5 AMPERE

FEATURES

· Fast switching

· Low leakage

· Low forward voltage drop

· High current capability

· High current surge

· High reliability

MECHANICAL DATA

Case: Molded plastic, R-1

Epoxy: UL 94V-O rate flame retardant

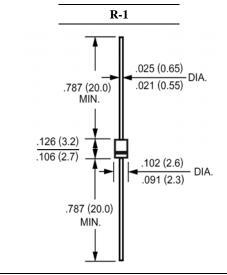
Lead: Axial leads, solderable per MIL-STD-202,

method 208 guaranteed

Polarity: Color band denotes cathode end

Mounting position: Any

Weight: 0.0064ounce, 0.181gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at $25\,^\circ\!\!\mathrm{C}$ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	1F10	1F12	1F14	1F15	1F16	1F18	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1000	1200	1400	1500	1600	1800	Volts
Maximum RMS Voltage	V _{RMS}	700	840	980	1050	1120	1260	Volts
Maximum DC Blocking Voltage	V _{DC}	1000	1200	1400	1500	1600	1800	Volts
Maximum Average Forward Rectified Current at T _A =25℃	I _(AV)	0.5						Amp
Peak Forward Surge Current,								+
8.3ms single half-sine-wave	I _{FSM} 25							Amp
superimposed on rated load (JEDEC method)								
Maximum Forward Voltage at 0.5A DC and 25℃	$\mathbf{V}_{\mathbf{F}}$	1.8						Volts
Maximum Reverse Current at Rated DC Blocking Voltage $T_A=25$ °C		5.0						uAmp
Maximum Full Load Reverse Current Average, Full Cycle .375", (9.5mm) lead length at $T_L = 55$ °C	- I _R	100						uAmp
Typical Junction Capacitance (Note 1)	$C_{\mathbf{J}}$	15						pF
Maximum Reverse Recovery Time (Note 2)	T_{RR}	300						nS
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150						င

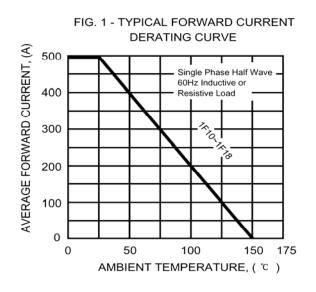
NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_{RR} =.25A.





RATINGS AND CHARACTERISTIC CURVES



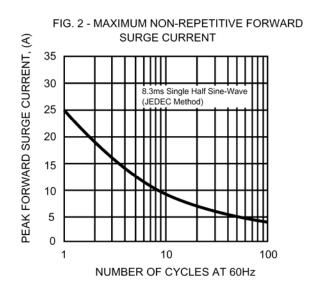


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

