1F1X SERIES

PHOTOFLASH FAST RECOVERY RECTIFIER

产品规格确认书

1F10 THRU 1F18

PHOTOFLASH FAST RECOVERY RECTIFIER

康 比 電 子
HORNBY ELECTRONIC

REVERSE VOLTAGE: **1000 to 1800 VOLTS**

FORWARD CURRENT: **0.5 AMPERE**

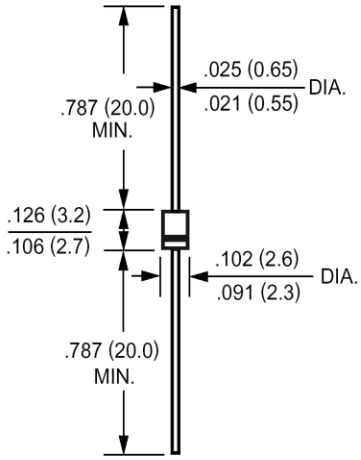
FEATURES

· 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

R-1



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60H_Z, 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 superimposed on rated load (JEDEC method)	I_{FSM}	25						**Amp**
Maximum Forward Voltage at 0.5A DC and 25℃	V_F	1.8						**Volts**
Maximum Reverse Current at Rated DC Blocking Voltage T_A=25℃	I_R	5.0						**uAmp**
Maximum Full Load Reverse Current Average, Full Cycle .375", (9.5mm) lead length at T_L = 55℃		100						**uAmp**
Typical Junction Capacitance (Note 1)	C_J	15						**pF**
Maximum Reverse Recovery Time (Note 2)	T_{RR}	300						**nS**
Operating and Storage Temperature Range	T_J, Tstg	-55 to +150						**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Reverse Recovery Test Conditions：I_F=.5A，I_R=1A，I_{RR}=.25A.

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

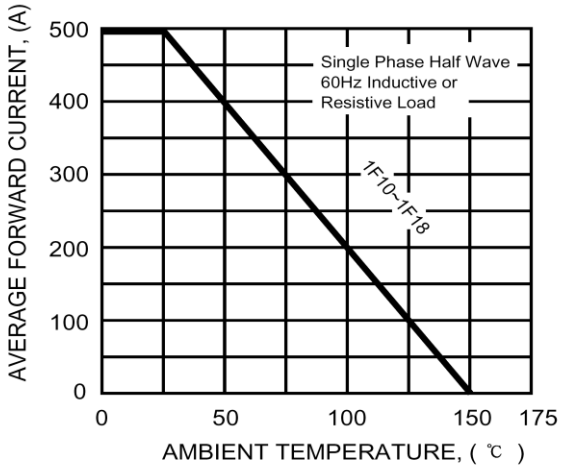


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

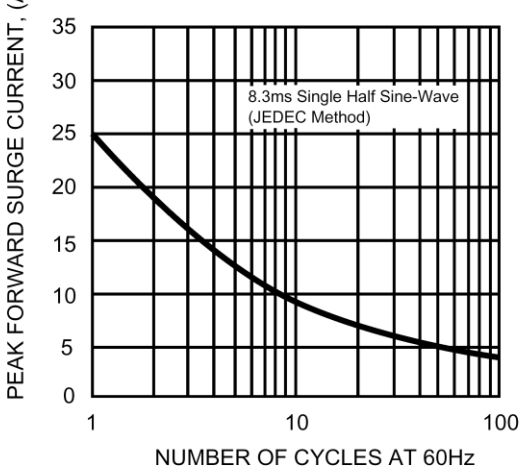
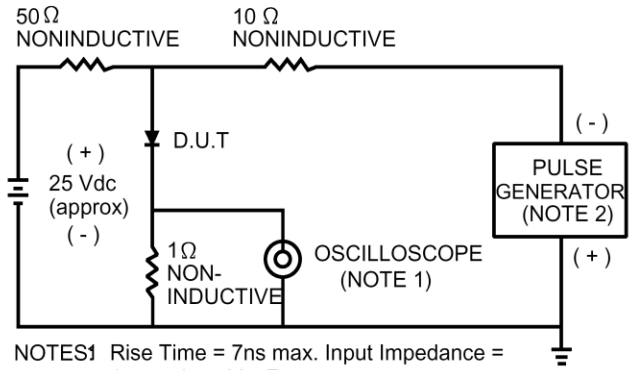


FIG. 3 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time = 7ns max. Input Impedance = 1 megohm. 22 pF.
2. Rise Time = 10ns max. Source Impedance = 50 ohms.