

1F1~1F7

FAST PURPOSE PLASTIC RECTIFIER

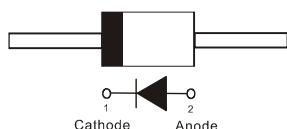
VOLTAGE 50 to 1000 Volt **CURRENT** 1.0 Ampere

FEATURES

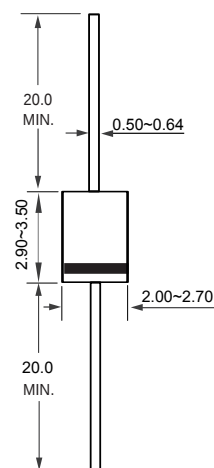
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- High current capability

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



R-1 Unit:mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	1F1	1F2	1F3	1F4	1F5	1F6	1F7	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current (see FIG.1)	I _{F(AV)}	1.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30							A
Maximum Forward Voltage at 1 A	V _F	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25 °C T _J = 100 °C	I _R	5.0 100							μA
Typical Junction Capacitance	C _J	15							pF
Maximum Reverse Recovery Time	t _{rr}	150				250	500		ns
Operating Junction Temperature Range	T _J	-55 to + 125							°C
Storage Temperature Range	T _{STG}	-55 to + 150							°C

Notes: 1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $IRR=0.25A$

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

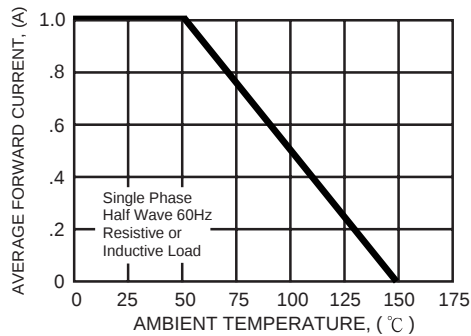


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

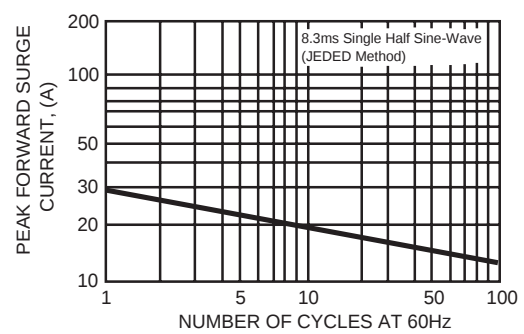


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

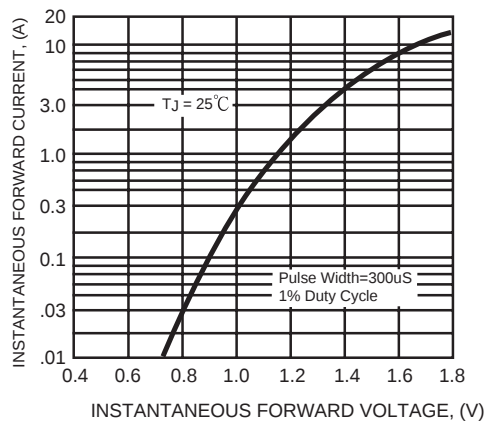


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

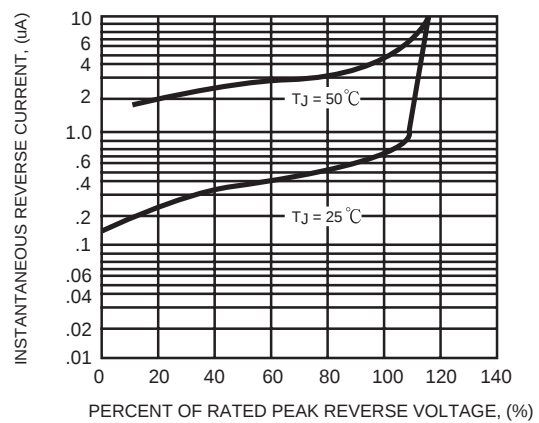


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

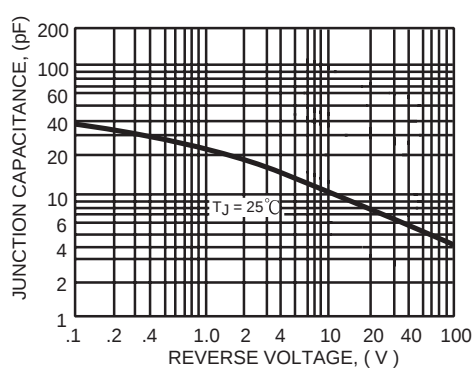
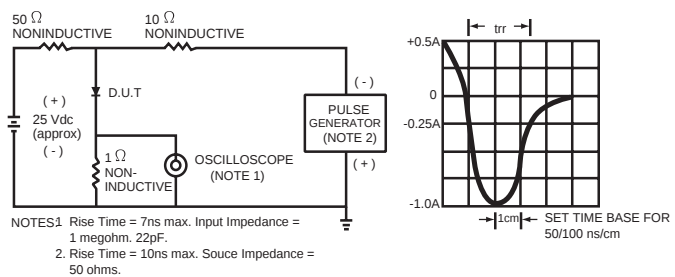


FIG. 6 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



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Ordering Information

- Packing information

1F1~1F7	Packing Quantity
Tape&Reel	13 Inch; 5kpcs/Reel
Ammo Packing	5kpcs/Ammo Box
Bulk(Tube/Box)	1kpcs/Box