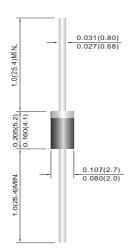


## FR101~FR107

# FAST RECOVERY PLASTIC RECTIFIER VOLTAGE 50 to 1000 Volts CURRENT 1.0 Amperes



DO-41 Unit: inch(mm)



#### **FEATURES**

- · High current capability.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Low leakage.
- Exceeds environmental standards of MIL-S-19500/228
- Fast switching for high efficiency.
- Pb free product are available: 99% Sn above can meet Rohs environment substance directive request

#### **MECHANICAL DATA**

Case: Molded plastic, DO-41

Terminals: Axial leads, solderable to MIL-STD-202G, Method 208

Polarity: Color Band denotes cathode end

Mounting Position: Any

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	FR101	FR102	FR103	FR104	FR105	FR106	FR107	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at TA=55°C	<b>I</b> AV	1.0							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	IFSM	30							А
Maximum Forward Voltage at 1.0A	VF	1.3						V	
Maximum DC Reverse Current TA=25°C at Rated DC Blocking Voltage TA=100°C	<b>l</b> R	5.0 500							uA
Maximum Reverse Recovery Time (Note 1)	TRR	150 250 500					ns		
Typical Junction capacitance (Note 2)	Cı	12							pF
Typical Thermal Resistance (Note 3)	RθJA	41							°C / W
Operating Junction and Storage Temperature Range	ТЈ,Тѕтс	-55 TO +150							°C

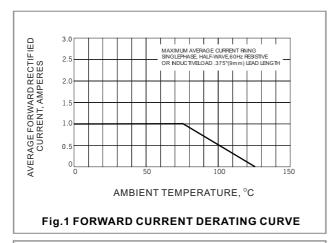
NOTES:1. Reverse Recovery Test Conditions: I<sub>F</sub>=.5A, I<sub>R</sub>=1A, I<sub>II</sub>=.25A

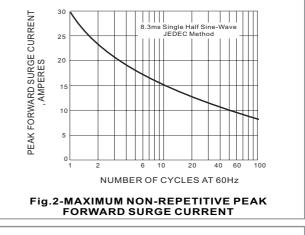
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC
- 3. Thermal resistance from junction to ambient at 0.375"(9.5mm) lead length with both leads equally heatsink.

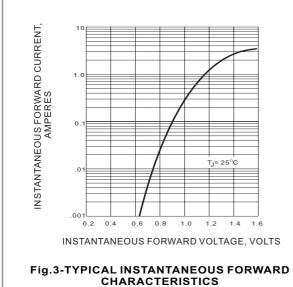
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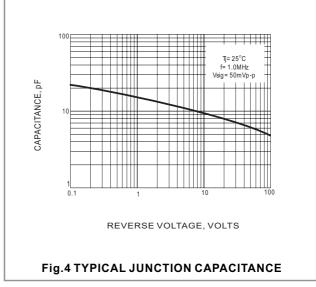
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#### **RATING AND CHARACTERISTIC CURVES**









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