# Fast Recovery Rectifier





#### **Features**

- · Fast switching for high efficiency
- · Low cost
- · Diffused junction
- · Low reverse leakage current
- Low forward voltage drop
- · High current capability
- The plastic material carries UL recognition 94V-0

#### **Mechanical Data**

Case : JEDEC DO-41 molded plastic
Polarity : Colour band denotes cathode
Weight : 0.012 ounces, 0.34 grams

Mounting Position : Any

Reverse Voltage : 100 to 1000 Volts

Forward Current : 1 Ampere

### **Maximum Ratings and Electrical Characteristics**

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Characteristics	Symbol	FR102+	FR107+	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	100	1000	V
Max. RMS Voltage	VRMS	70	700	V
Max. DC Blocking Voltage	VDC	100	1000	V
Max. Average Forward Rectified Current @TA = 75°C	I(AV)	1		Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	30		А
Peak Forward Voltage at 1A DC	VF	1.3		V
Max. DC Reverse Current @TJ = 25°C at Rated DC Blocking Voltage @TJ = 100°C	lr	5 100		μА
Maximum Reverse Recovery Time (Note 1)	Trr	150	500	nS
Typical Junction Capacitance (Note 2)	Сл	25	15	pF
Typical Thermal Resistance (Note 3)	Reja	25		°C/W
Operating Temperature Range	TJ	-55 to +150		°C
Storage Temperature Range	Тѕтс	-55 to +150		°C

Notes: 1. Measured with IF = 0.5A, IR = 1A, IRR = 0.25A

- 2. Measured at 1MHz and applied reverse voltage of 4V DC
- 3. Thermal resistance junction to ambient.
- 4. The typical data above is for reference only

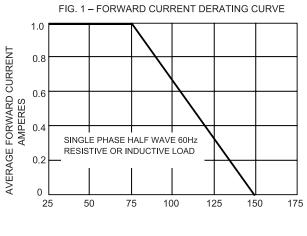
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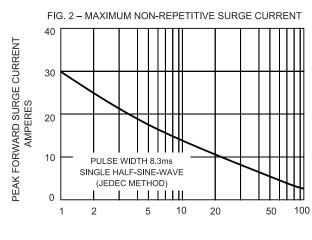


## **Fast Recovery Rectifier**



### **Rating and Characteristic Curves**





AMBIENT TEMPERATURE (℃)

NUMBER OF CYCLES AT 60Hz

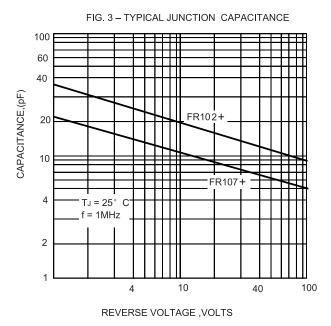
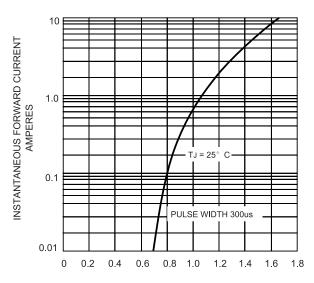


FIG.4-TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

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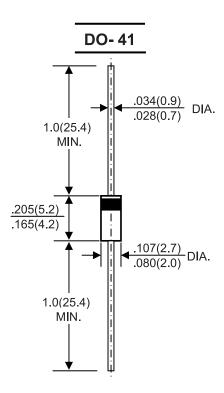


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# Fast Recovery Rectifier multicomp



### **Dimensions:**



Dimensions: Inches (Millimetres)

### **Part Number Table**

Description	Part Number		
Fast Recovery Rectifiers	FR102+		
	FR107+		

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