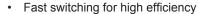
Fast Recovery Rectifier



Features



- 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-15 molded plastic
Polarity : Colour band denotes cathode
Weight : 0.015 ounces, 0.4 grams

Mounting Position : Any

Reverse Voltage : 200 to 1000 Volts Forward Current : 2 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	FR203	FR207	Unit
Max. Recurrent Peak Reverse Voltage	VRRM	200	1000	V
Max. RMS Voltage	VRMS	140	700	V
Max. DC Blocking Voltage	VDC	200	1000	V
Max. Average Forward Rectified Current @TA = 75°C	I(AV)	2.0		А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	60		А
Peak Forward Voltage at 2A DC	VF	1.3		V
Maximum DC Reverse Current @TJ = 25°C at Rated DC Blocking Voltage @TJ = 100°C	lR	5 100		μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	150	500	nS
Typical Junction Capacitance (Note 2)	Сл	30	20	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

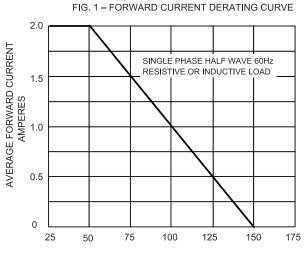
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Fast Recovery Rectifier



Ratings and Characteristic Curves





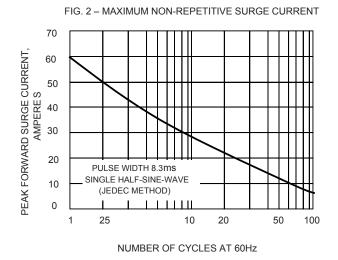
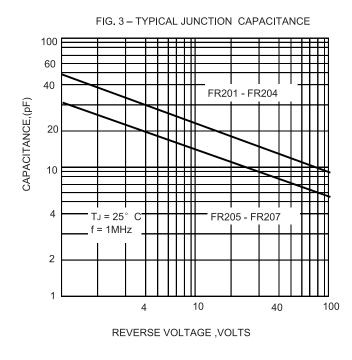


FIG.4-TYPICAL FORWARD CHARACTERISTICS



1.0 TJ = 25° C TJ = 25° C PULSE WIDTH 300us

0.6 0.8 1.0

INSTANTANEOUS FORWARD VOLTAGE ,VOLTS





1.2 1.4

10

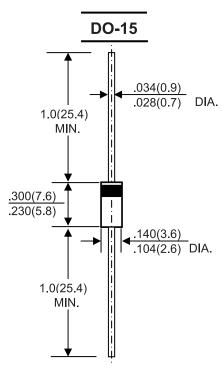
0.01

0.2 0.4

Fast Recovery Rectifier



Dimensions:



Dimensions: Inches (Millimetres)

Part Number Table

Description	Part Number		
Foot Doggvery Dogtifiers	FR203		
Fast Recovery Rectifiers	FR207		

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