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SF11 - SF14

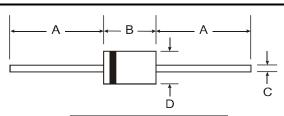
1.0A SUPER-FAST RECOVERY RECTIFIER

Features

- Low Leakage
- Low Forward Voltage Drop
- **High Current Capability**
- Super-fast Switching Speed < 35ns
- Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Axial Leads, Solderable per MIL-STD-202 Method 208
- Polarity: Color Band Denotes Cathode
- Mounting Position: Any
- Weight: 0.3 grams (approximate)



DO-41						
Dim	Min	Max				
Α	25.4	_				
В	4.1	5.2				
С	0.71	0.86				
D	2.0	2.7				
All Dimensions in mm						

Maximum Ratings and Electrical Characteristics @TA = 25°C unless otherwise specified

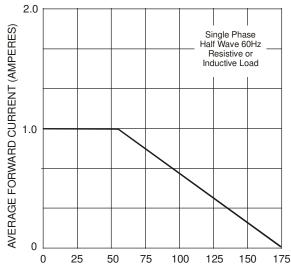
Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	SF11	SF12	SF13	SF14	Unit
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	V
Maximum RMS Voltage		35	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	V
Maximum Average Forward Rectified Current .375" 9.5mm Lead Length @ T _A =55°C		1.0				Α
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load		30				Α
Maximum Instantaneous Forward Voltage at 1.0A DC		0.975				V
Maximum DC Reverse Current at Rated DC Blocking Voltage		5.0				μΑ
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _A = 150°C		50				μА
Maximum Reverse Recovery Time (Note 1)		35				ns
Typical Junction Capacitance (Note 2)		63				pF
Operating and Storage Temperature Range		-65 to + 175			°C	

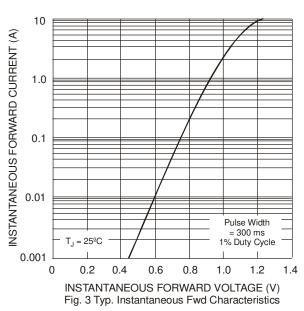
1. Reverse Recovery Test Conditions: I_F =0.5 A, I_R =1.0 A, I_{rr}=0.25A 2. Measured at 1.0MHz and applied reverse voltage of 4.0V. Notes:

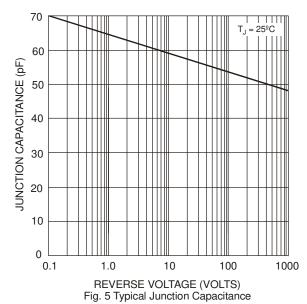


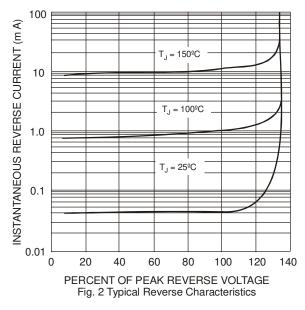
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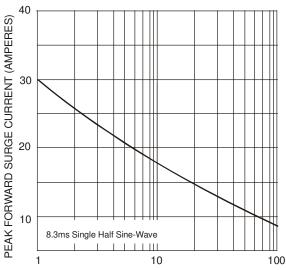


AMBIENT TEMPERATURE (°C) Fig. 1 Typical Forward Current Derating Curve









NUMBER OF CYCLES AT 60 Hz Fig. 4 Max Non-Repetitive Peak Fwd Surge Current (A)



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