

# **DISCONTINUED**

# SF11 - SF14

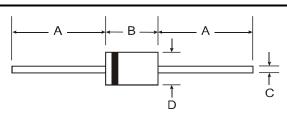
### 1.0A SUPER-FAST RECOVERY RECTIFIER

### **Features**

- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Super-fast Switching Speed < 35ns</li>
- 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.

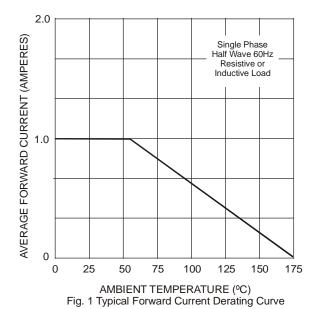
Characteristic	Symbol	SF11	SF12	SF13	SF14	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	150	200	V
Maximum Average Forward Rectified Current .375" 9.5mm Lead Length @ T <sub>A</sub> =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 <sub>A</sub> = 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

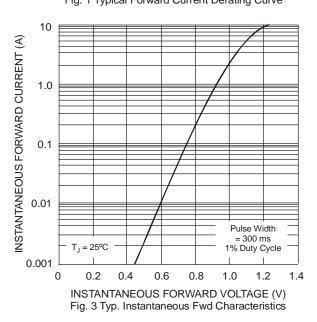
Notes:

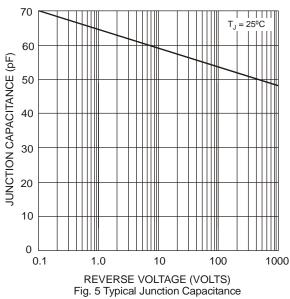
- 1. Reverse Recovery Test Conditions:  $I_F = 0.5 \text{ A}$ ,  $I_R = 1.0 \text{ A}$ ,  $I_{rr} = 0.25 \text{A}$
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

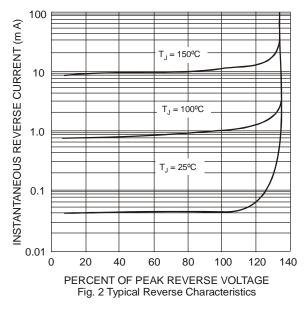


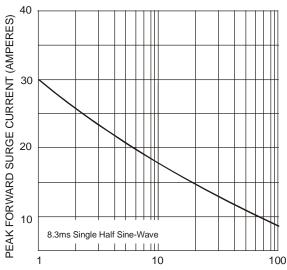
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NUMBER OF CYCLES AT 60 Hz Fig. 4 Max Non-Repetitive Peak Fwd Surge Current (A)



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