

## Excellent Integrated System Limited

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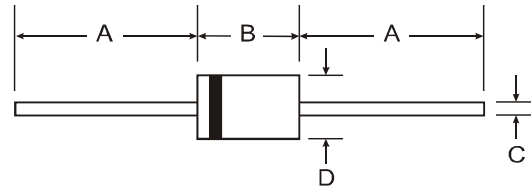
[Diodes Incorporated](#)  
[SF11-T](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

**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
A	25.4	—
B	4.1	5.2
C	0.71	0.86
D	2.0	2.7
All Dimensions in mm		

**Maximum Ratings and Electrical Characteristics**

@T<sub>A</sub> = 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 <sub>RRM</sub>	50	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	V
Maximum Average Forward Rectified Current .375" 9.5mm Lead Length @ T <sub>A</sub> =55°C	I <sub>(AV)</sub>	1.0				A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load	I <sub>FM</sub>	30				A
Maximum Instantaneous Forward Voltage at 1.0A DC	V <sub>f</sub>	0.975				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	5.0				μA
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T <sub>A</sub> = 150°C	I <sub>R</sub>	50				μA
Maximum Reverse Recovery Time (Note 1)	T <sub>rr</sub>	35				ns
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	63				pF
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to + 175				°C

- Notes: 1. Reverse Recovery Test Conditions: I<sub>F</sub> = 0.5 A, I<sub>R</sub> = 1.0 A, I<sub>rr</sub> = 0.25A  
 2. Measured at 1.0MHz and applied reverse voltage of 4.0V.



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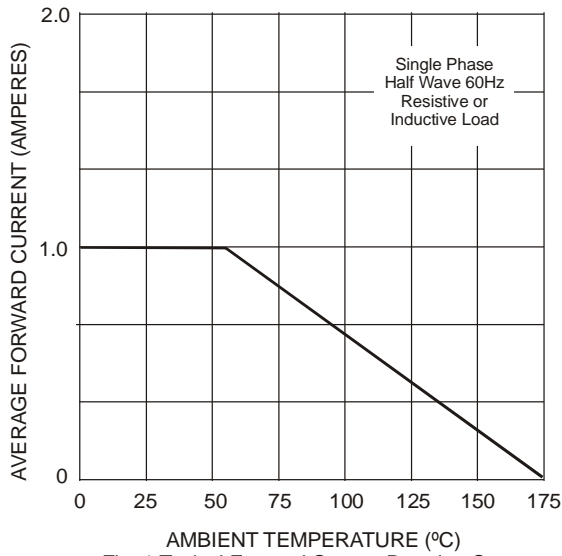


Fig. 1 Typical Forward Current Derating Curve

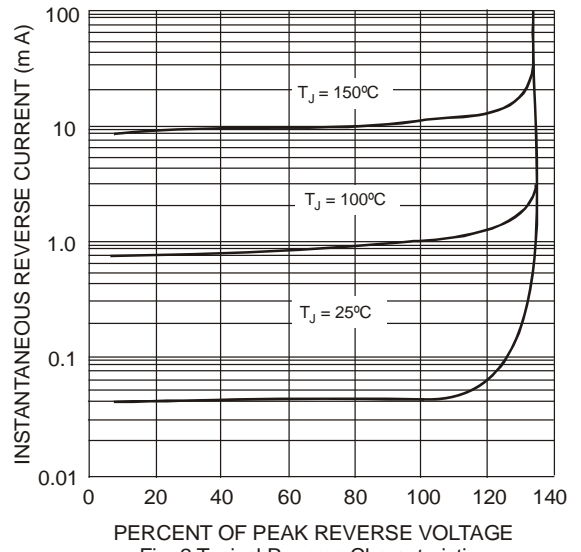


Fig. 2 Typical Reverse Characteristics

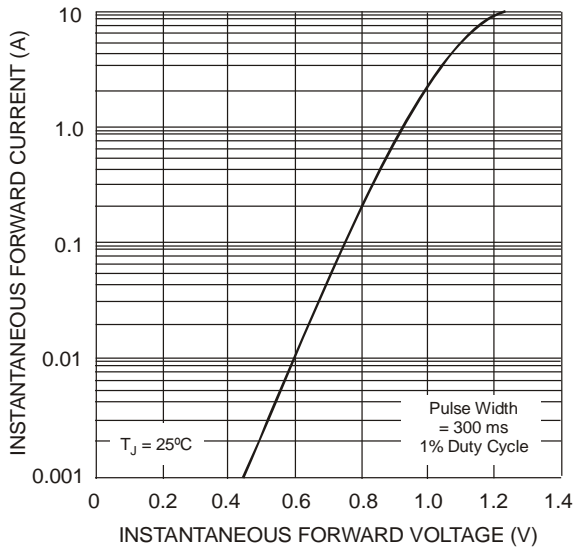


Fig. 3 Typ. Instantaneous Fwd Characteristics

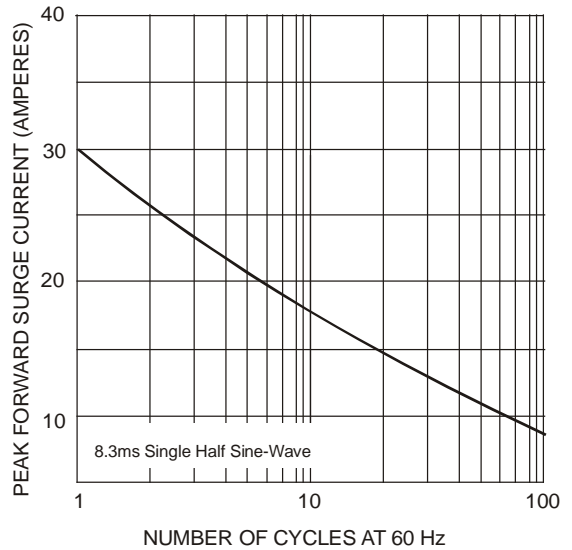


Fig. 4 Max Non-Repetitive Peak Fwd Surge Current (A)

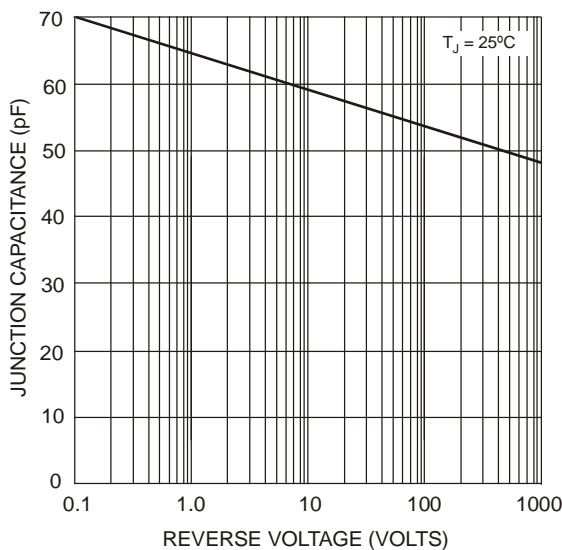


Fig. 5 Typical Junction Capacitance



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