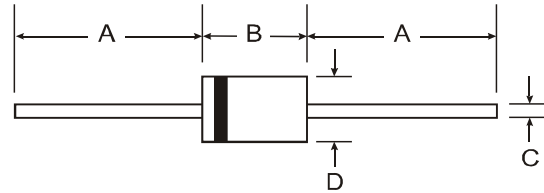


Features

- 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_A = 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 _{RMS}	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	I _(AV)	1.0				A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load	I _{FM}	30				A
Maximum Instantaneous Forward Voltage at 1.0A DC	V _f	0.975				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5.0				μA
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _A = 150°C	I _R	50				μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35				ns
Typical Junction Capacitance (Note 2)	C _J	63				pF
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to + 175				°C

- Notes: 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.

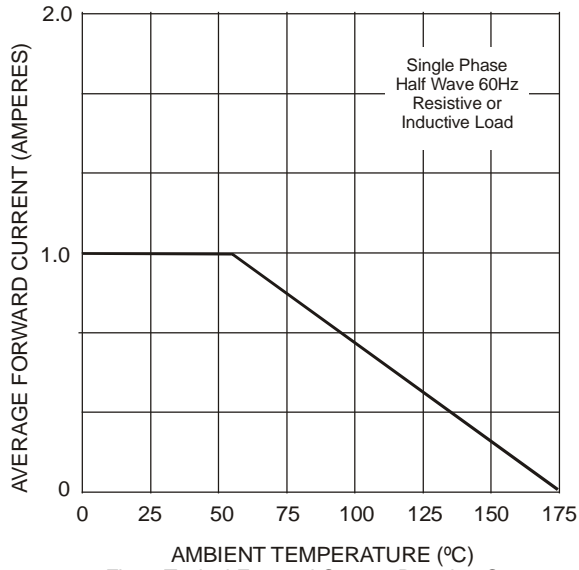


Fig. 1 Typical Forward Current Derating Curve

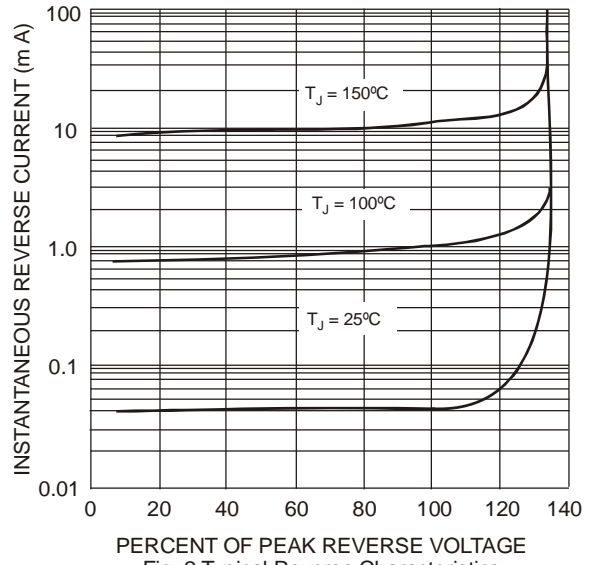


Fig. 2 Typical Reverse Characteristics

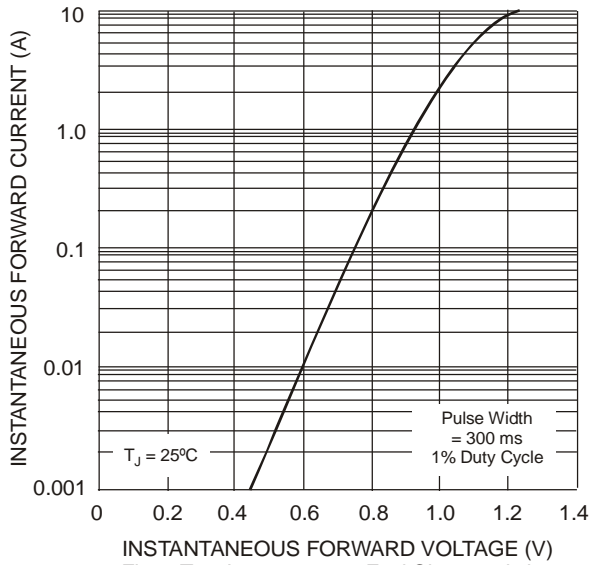


Fig. 3 Typ. Instantaneous Fwd Characteristics

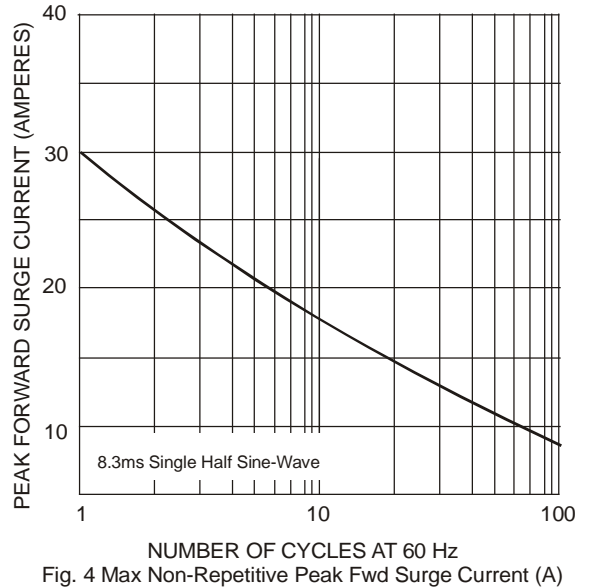


Fig. 4 Max Non-Repetitive Peak Fwd Surge Current (A)

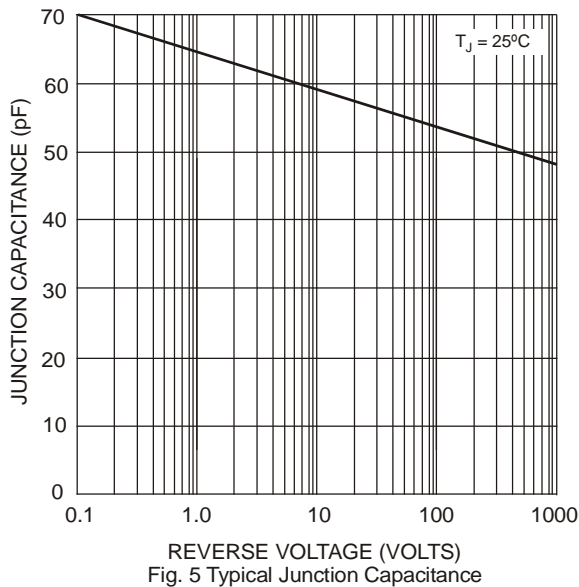


Fig. 5 Typical Junction Capacitance

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