

<u>SF11 - SF14</u>

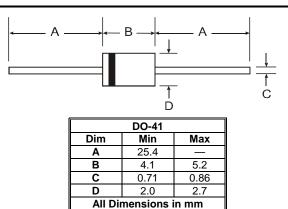
1.0A SUPER-FAST RECOVERY RECTIFIER

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)



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

Single phase, half wave	, 60Hz, resistive or inductive load.
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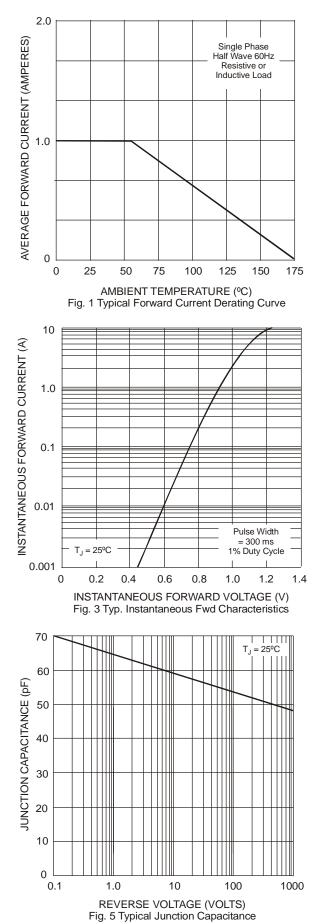
Characteristic	Symbol	SF11	SF12	SF13	SF14	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	V
Maximum Average Forward Rectified Current .375" 9.5mm Lead Length @ T _A =55°C	I _(AV)	1.0			А	
eak Forward Surge Current 8.3 ms Single Half Sine-Wave IFM 30					А	
Maximum Instantaneous Forward Voltage at 1.0A DC			0.975			
Maximum DC Reverse Current at Rated DC Blocking Voltage			5.0			μA
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _A = 150°C	50°C I _R 50				μA	
Maximum Reverse Recovery Time (Note 1)		35				ns
Typical Junction Capacitance (Note 2)			63			
Operating and Storage Temperature Range			-65 to + 175			

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.



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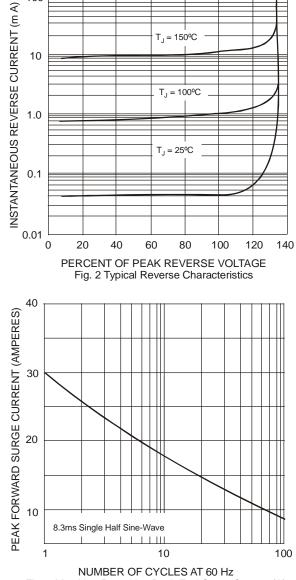


Fig. 4 Max Non-Repetitive Peak Fwd Surge Current (A)



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