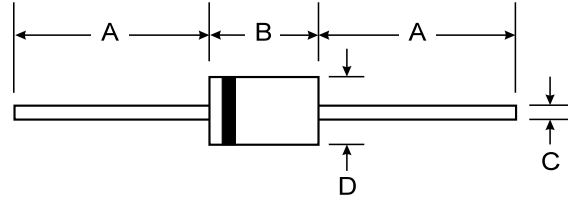


Features

- High Current Capability and Low Forward Drop
- High Surge Capacity
- Guard Ring for Transient Protection
- Low Power Loss, High Efficiency
- Plastic Material: UL Flammability Classification Rating 94V-0



Mechanical Data

- Case: Molded Plastic
- Terminals: Axial Lead, Solderable per MIL-STD-202, Method 208
- Mounting Position: Any
- Polarity: Cathode Band
- Weight: 1.20 grams (approx.)

DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.20
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	SR502	SR503	SR504	SR505	SR506	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RSM}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current 9.5mm lead length @ T _L = 90°C	I _(AV)	5.0					A
Peak Forward Surge current 8.3ms half sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150					A
Maximum Forward Voltage @ 5.0A	V _F	0.55			0.67		V
Maximum Average Reverse Current at Peak Reverse Voltage @ T _A = 25°C @ T _A = 100°C	I _R I _R	1.0 50					mA
Typical Thermal Resistance (Note 1)	R _{θJL}	15			10		K/W
Typical Junction Capacitance (Note 2)	C _J	550			400		pF
Storage and Operating Temperature Range	T _J , T _{STG}	-65 to +150					°C

Notes: 1. Thermal Resistance from Junction to Lead Vertical PC Board Mounting, 9.5mm Lead Length.
 2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

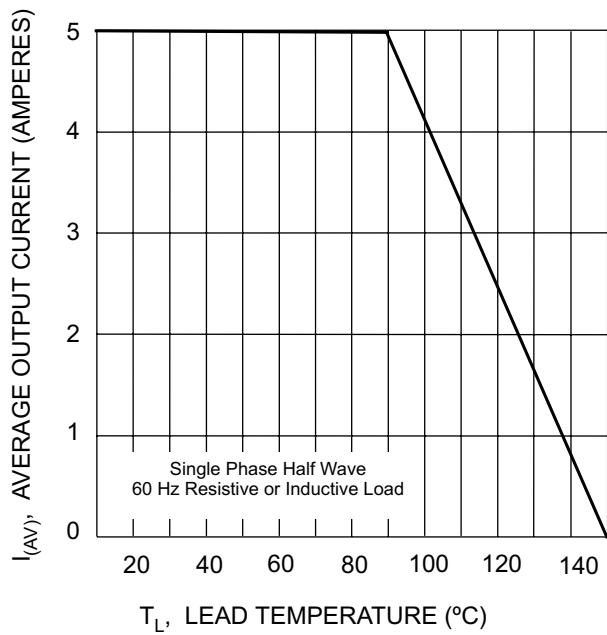


Fig. 1 Typical Forward Characteristics

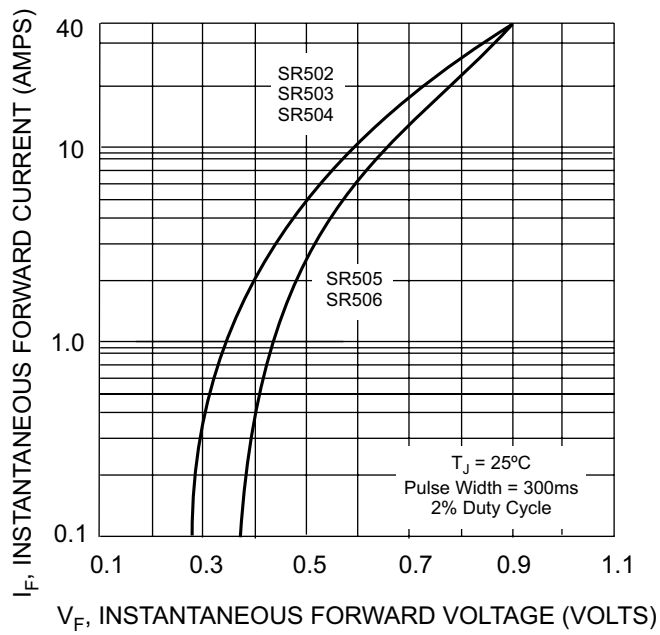


Fig. 2 Typical Forward Characteristics

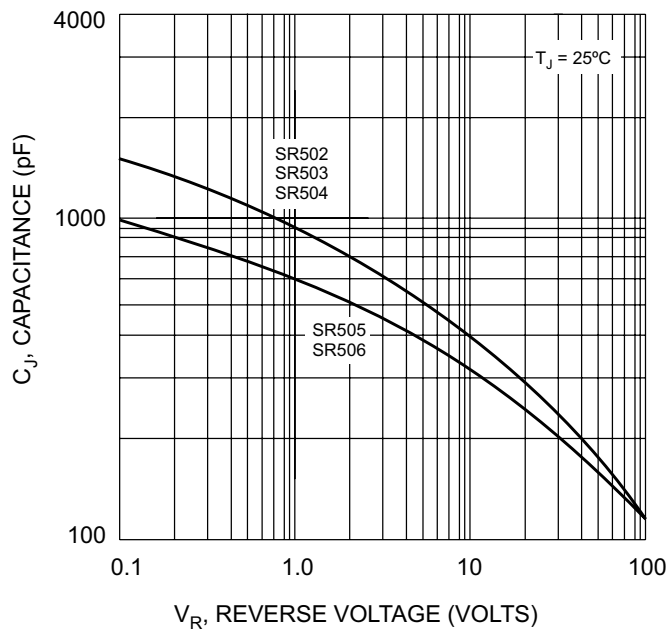


Fig. 3 Typical Junction Capacitance

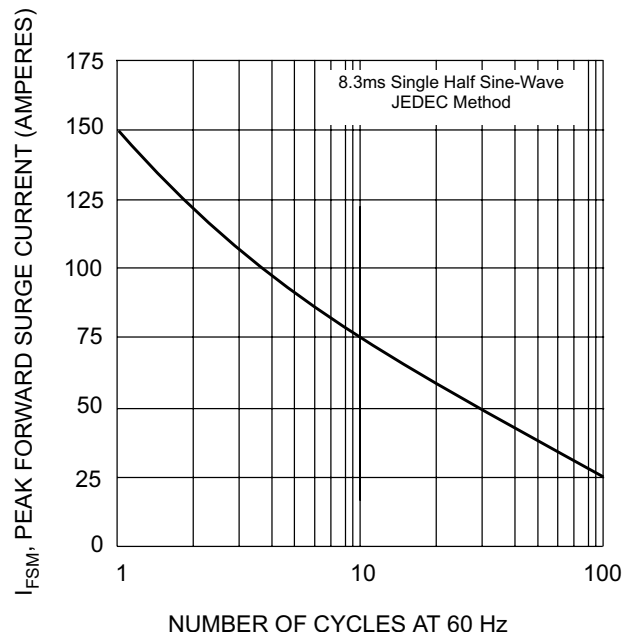


Fig. 4 Maximum Non-Repetitive Peak Forward Surge Current

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