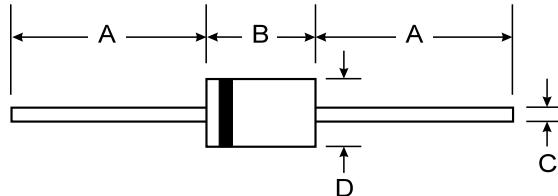


Features

- 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

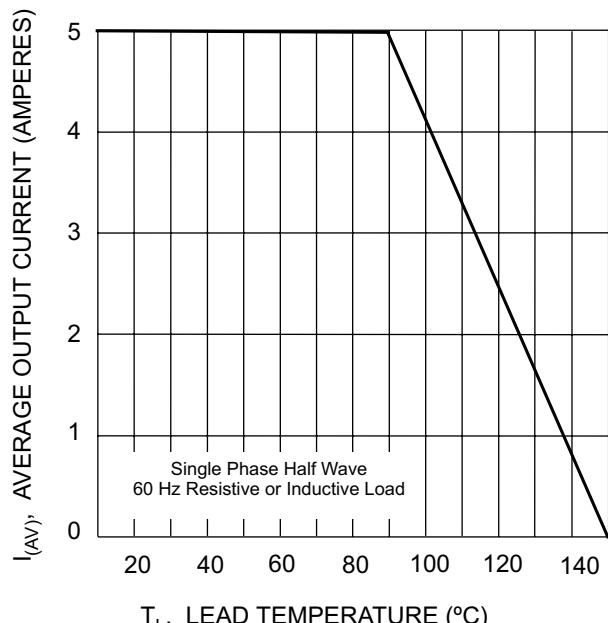
Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

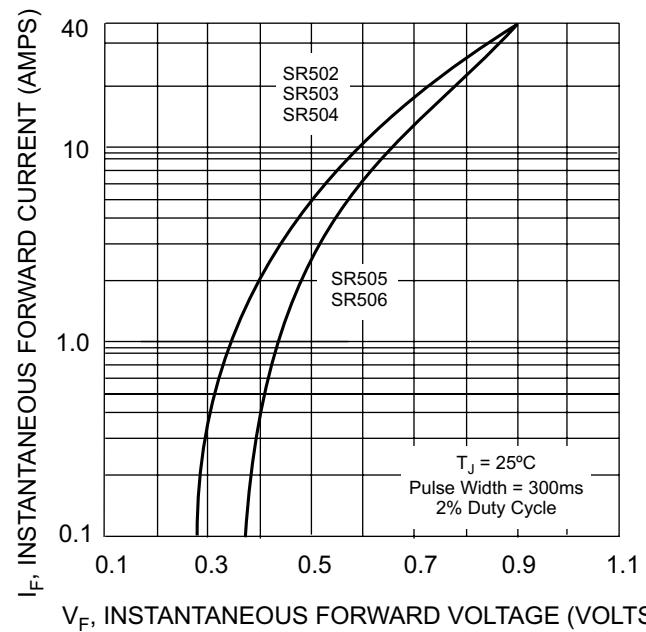
Characteristic	Symbol	SR502	SR503	SR504	SR505	SR506	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RSM}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current 9.5mm lead length	I _(AV)			5.0			A
Peak 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			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:

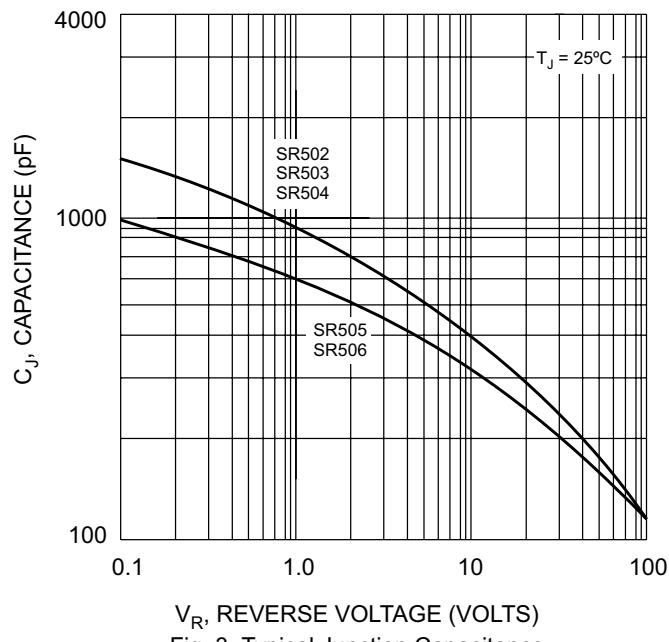
1. Thermal Resistance from Junction to Lead Vertical PC Board Mounting, 9.5mm Lead Length.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V.



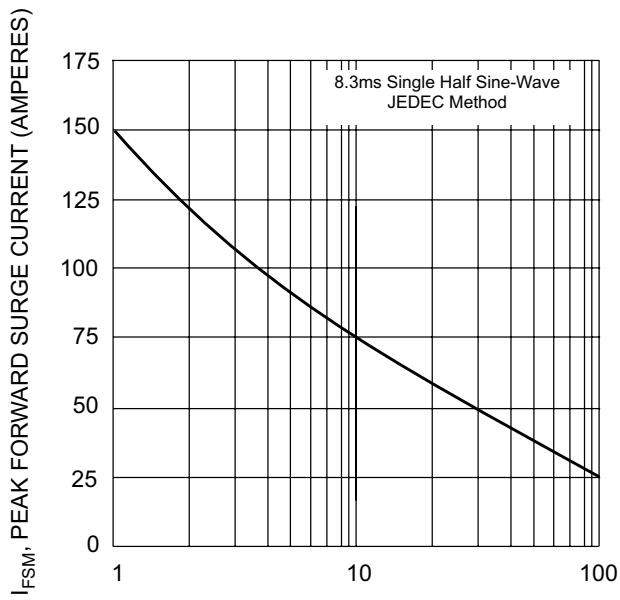
T_L , LEAD TEMPERATURE ($^{\circ}\text{C}$)
Fig. 1 Typical Forward Characteristics



V_F , INSTANTANEOUS FORWARD VOLTAGE (VOLTS)
Fig. 2 Typical Forward Characteristics



V_R , REVERSE VOLTAGE (VOLTS)
Fig. 3 Typical Junction Capacitance



I_{FSM} , PEAK FORWARD SURGE CURRENT (AMPERES)
NUMBER OF CYCLES AT 60 Hz
Fig. 4 Maximum Non-Repetitive Peak Forward Surge Current