

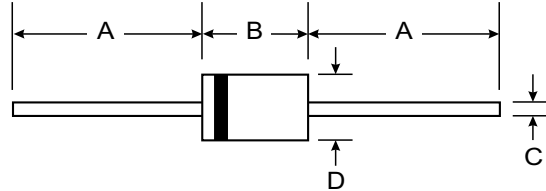
NOT RECOMMENDED FOR  
NEW DESIGNS, USE SB3X0 SERIES

### Features

- Low Forward Drop
- High Surge Current Capacity
- Guard Ring for Transient Protection
- Low Power Loss, High Efficiency

### Mechanical Data

- Case: DO-201AD, Molded Plastic
- Plastic Package: UL Flammability Classification Rating 94V-0
- Moisture sensitivity: Level 1 per J-STD-020A
- Terminals: Axial lead, Solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Weight: 1.2 grams (approx.)



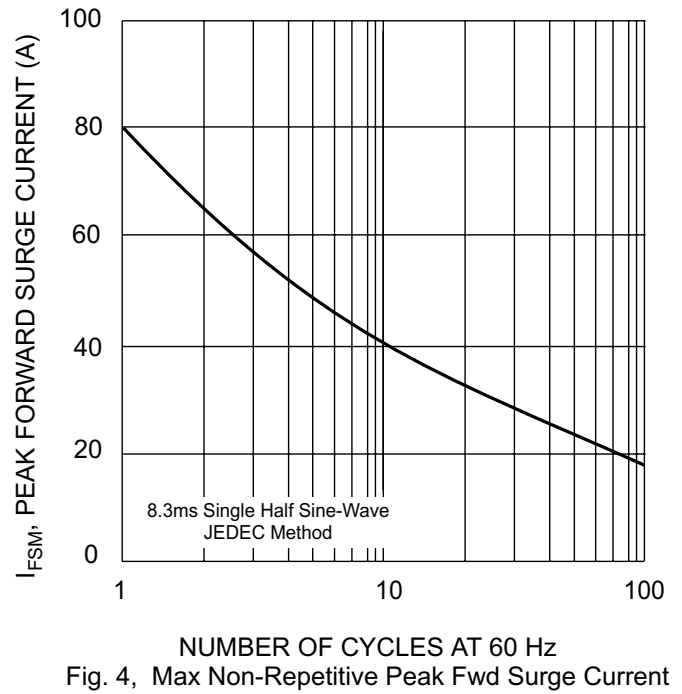
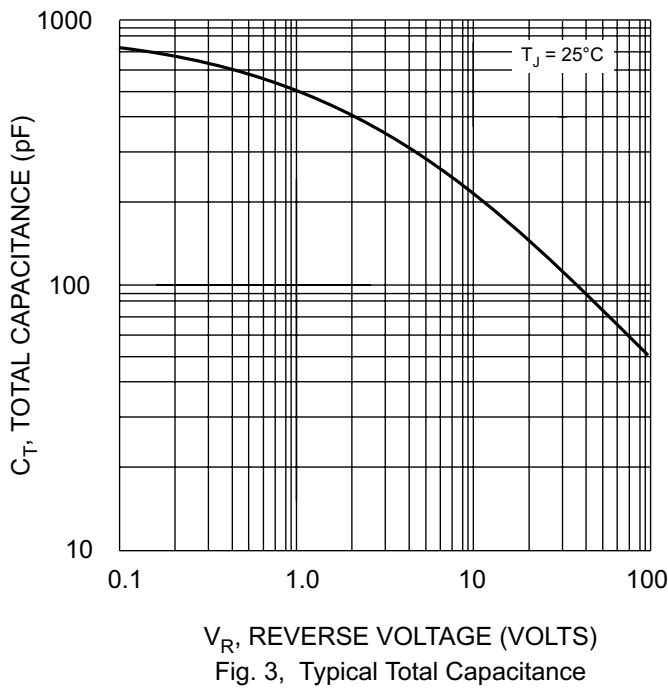
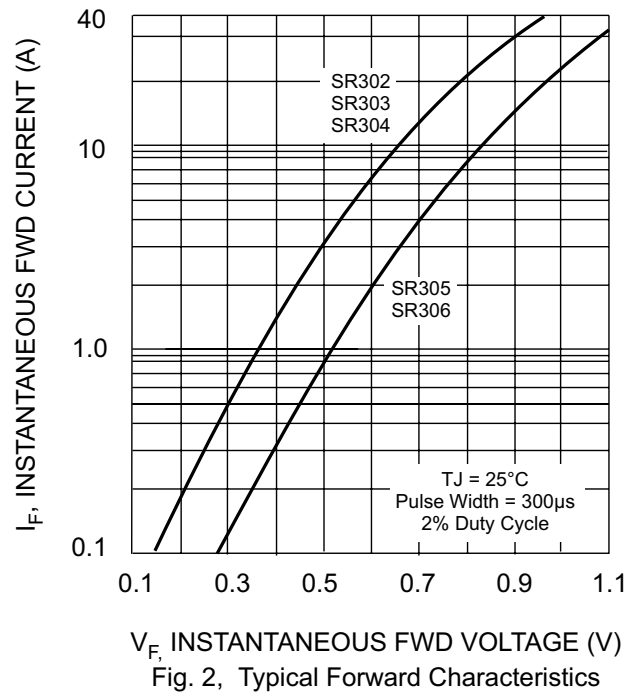
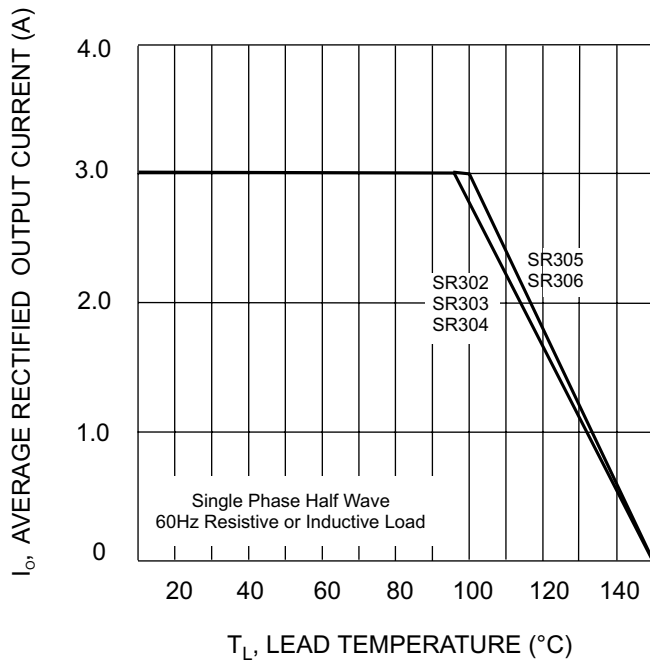
DO-201AD		
Dim	Min	Max
A	25.40	—
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

Characteristic	Symbol	SR302	SR303	SR304	SR305	SR306	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Working Peak Reverse Voltage	V <sub>RWM</sub>						
DC Blocking Voltage	V <sub>R</sub>						
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	35	42	V
Average Rectified Output Current (Note 1) T <sub>L</sub> = 95°C T <sub>L</sub> = 100°C	I <sub>O</sub>	3.0 —			— 3.0		A
Non-repetitive Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	80					A
Forward Voltage @ I <sub>F</sub> = 3.0A	V <sub>F</sub>	0.55			0.72		V
Peak Reverse Current at Rated DC Blocking Voltage @ T <sub>A</sub> = 25°C @ T <sub>A</sub> = 100°C	I <sub>R</sub>	1.0 20					mA
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	20					°C/W
Typical Total Capacitance (Note 3)	C <sub>T</sub>	300					pF
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150					°C

- Notes:
1. Lead Temperature T<sub>L</sub> measured 9.5mm lead length from body.
  2. Thermal Resistance from Junction to Ambient Vertical PC Board Mounting, 1.27mm Lead Length.
  3. Measured at 1.0MHz and applied reverse voltage of 4.0V.



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