

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

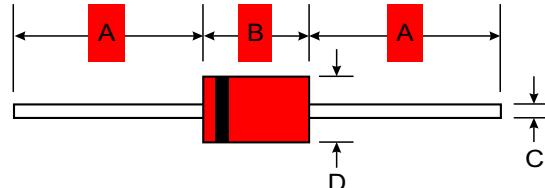
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### Features

- 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

@  $T_A = 25^\circ\text{C}$  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	$V_{RRM}$						
Working Peak Reverse Voltage	$V_{RWPM}$						
DC Blocking Voltage	$V_R$						
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	V
Average Rectified Output Current (Note 1)	$I_O$			3.0		3.0	A
$T_L = 95^\circ\text{C}$			—				
$T_L = 100^\circ\text{C}$							
Non-repetitive Peak Forward Surge Current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$			80			A
Forward Voltage @ $I_F = 3.0\text{A}$	$V_F$		0.55		0.72		V
Peak Reverse Current at Rated DC Blocking Voltage	$I_R$			1.0			mA
$@ T_A = 25^\circ\text{C}$				20			
$@ T_A = 100^\circ\text{C}$							
Typical Thermal Resistance (Note 2)	$R_{\theta,JA}$			20			°C/W
Typical Total Capacitance (Note 3)	$C_T$			300			pF
Operating and Storage Temperature Range	$T_J, T_{STG}$			-65 to +150			°C

Notes:

1. Lead Temperature  $T_L$  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.

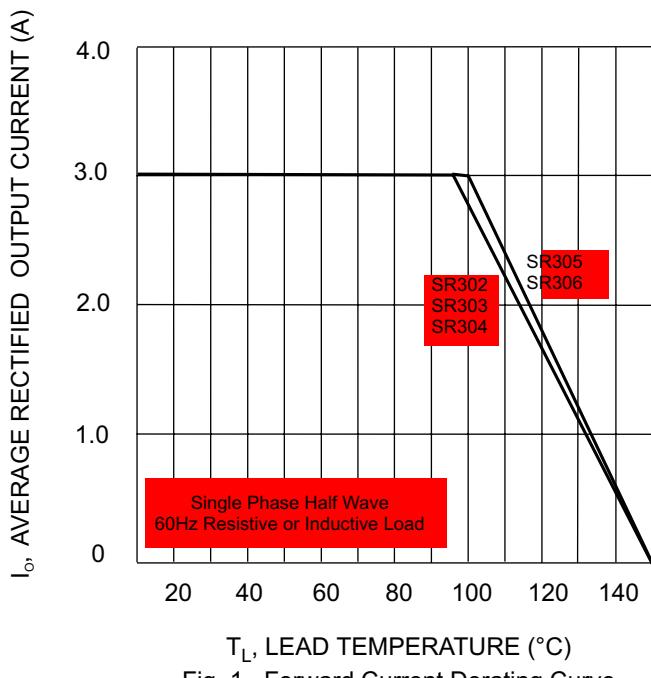


Fig. 1, Forward Current Derating Curve

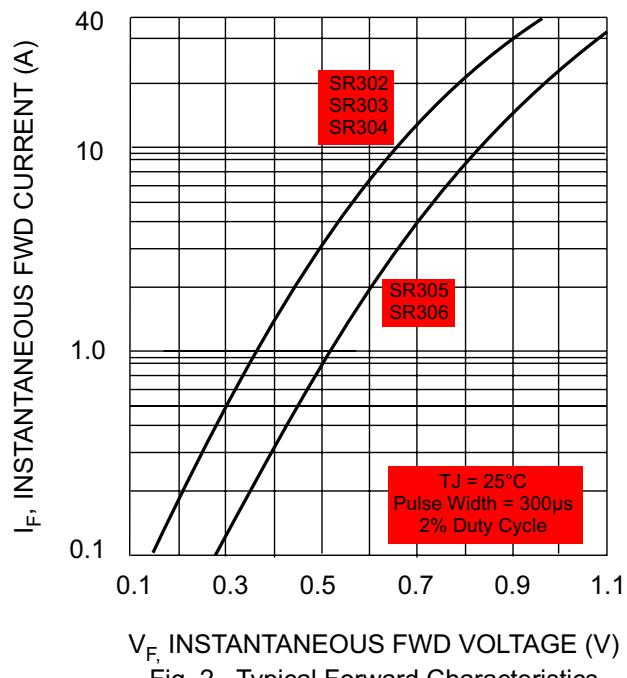


Fig. 2, Typical Forward Characteristics

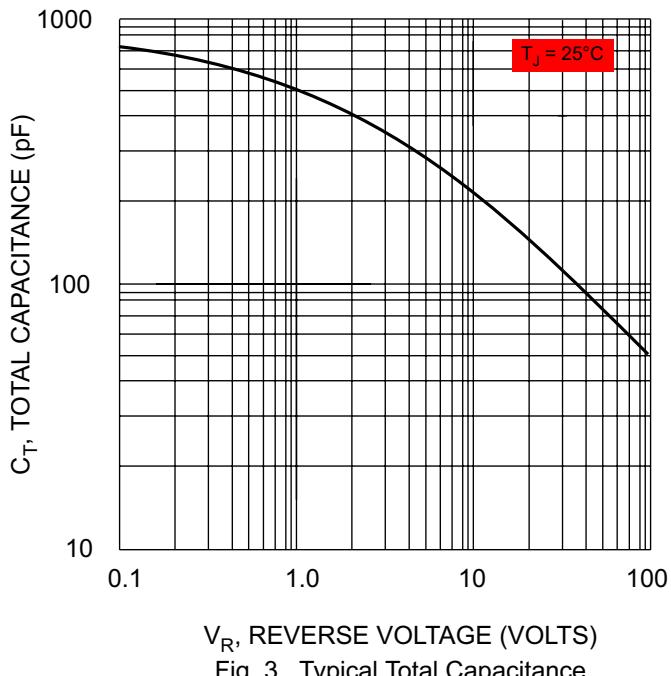


Fig. 3, Typical Total Capacitance

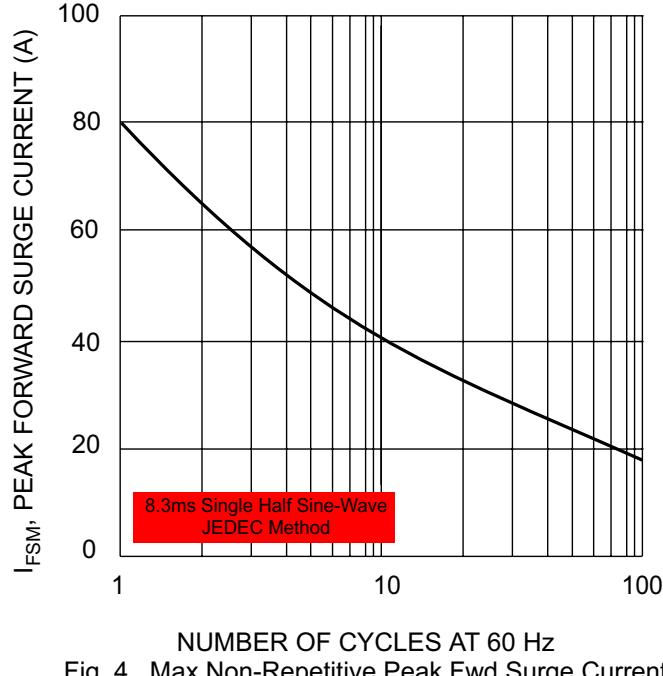


Fig. 4, Max Non-Repetitive Peak Fwd Surge Current