



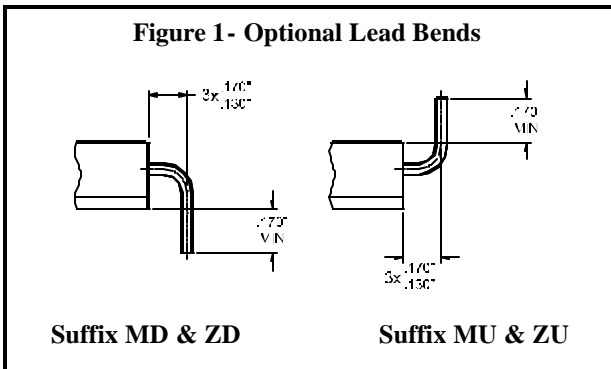


**Solid State Devices, Inc.**

14701 Firestone Blvd \* La Mirada, CA 90638  
 Phone: (562) 404-4474 \* Fax: (562) 404-1773  
 ssdi@ssdi-power.com \* www.ssdi-power.com

**SDR953M & Z**  
**Thru**  
**SDR956M & Z**

Electrical Characteristics	Symbol	Max	Units	
<b>Instantaneous Forward Voltage Drop</b> <sup>4/</sup> (I <sub>F</sub> = 25A, Pulse) (I <sub>F</sub> = 50A, Pulse)	T <sub>A</sub> = 25 °C	V <sub>F1</sub>	1.30	V <sub>DC</sub>
	T <sub>A</sub> = 25 °C	V <sub>F2</sub>	1.65	
<b>Instantaneous Forward Voltage Drop</b> <sup>4/</sup> (I <sub>F</sub> = 25Adc, Pulse)	T <sub>A</sub> = -55 °C	V <sub>F3</sub>	1.4	V <sub>DC</sub>
	T <sub>A</sub> = 100 °C	V <sub>F4</sub>	1.2	
<b>Reverse Leakage Current</b>	T <sub>A</sub> = 25 °C, Rated V <sub>R</sub> , Pulse	I <sub>R1</sub>	100	mA
	T <sub>A</sub> = 100 °C, Rated V <sub>R</sub> , Pulse	I <sub>R2</sub>	10	mA
<b>Reverse Recovery Time</b> (I <sub>F</sub> = .5 Amp, I <sub>R</sub> = 1A, I <sub>RR</sub> = .25A)	T <sub>A</sub> = 25 °C	t <sub>RR</sub>	35	nsec
<b>Junction Capacitance</b> (V <sub>R</sub> = 10V <sub>DC</sub> , T <sub>A</sub> = 25°C, f = 1MHz)		C <sub>J</sub>	250	pF



PIN ASSIGNMENT (TO-254 and TO-254Z Packages)				
Code	FUNCTION	Pin 1	Pin 2	Pin 3
		Cathode	Anode	Anode

**Notes:**

- 1/ For ordering information, Price, Operating Curves, and Availability - Contact Factory.
- 2/ Screened to MIL-PRF-19500.
- 3/ Recovery Conditions: I<sub>F</sub> = .5 Amp, I<sub>R</sub> = 1A, I<sub>RR</sub> = .25A.
- 4/ Pins 2 and 3 Tied Together.
- 5/ Available with higher surge ratings.

