

SR520 THRU SR5250

5.0 AMP. Schottky Barrier Rectifiers

Features

•Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound.

- · Guard ring for overvoltage protection
- High current capability, low forward voltage drop
- · Low power loss, high efficiency
- · High surge capability

Mechanical Data

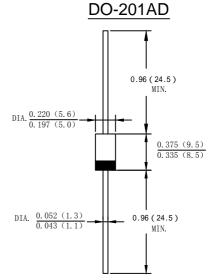
· Case: Molded plastic DO-201AD

 Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed

· Polarity: Color band dentes cathode end

Mounting Position: AnyMaking: Type Number

· Lead Free: For RoHS/Lead Free Version



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

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

For capacitive load derate current by 20%

SYMBOL	SR 520	SR 530	SR 540	SR 545	SR 550	SR 560	SR 580	SR 5100	SR 5150	SR 5200	SR 5250	Unit
VRRM	20	30	40	45	50	60	80	100	150	200	250	V
V _{RMS}	14	21	28	31.5	35	42	56	70	105	140	175	V
VDC	20	30	40	45	50	60	80	100	150	200	250	V
IF(AV)	5.0										Α	
Ігѕм	120										А	
l ² t	59.76										A ² s	
V _{FM}	0.55				0	.7	0	.85	0.	92	0.95	V
1_	0.2 0.05										m ^	
IR	10.0 5.0									mA		
CJ	500				350							pF
RөJA	25										°C/W	
TJ	-55 to + 150										$^{\circ}$	
Тѕтс	-55 to + 150										$^{\circ}$	
	VRRM VRMS VDC IF(AV) IFSM I²t VFM IR CJ RθJA TJ	SYMBOL 520 VRM	SYMBOL 520 530 VRRM 20 30 VRMS 14 21 VDC 20 30 IF(AV) IFSM 1²t VFM 0.55 IR CJ 50 RθJA TJ	SYMBOL 520 530 540 VRRM 20 30 40 VRMS 14 21 28 VDC 20 30 40 IF(AV) IFSM 0.55 IR CJ 500 Reja TJ	SYMBOL 520 530 540 545 VRRM 20 30 40 45 VRMS 14 21 28 31.5 VDC 20 30 40 45 IF(AV) IFSM 0.55 IR 0.2 TJ 500	SYMBOL 520 530 540 545 550 VRRM 20 30 40 45 50 VRMS 14 21 28 31.5 35 VDC 20 30 40 45 50 IF(AV) IFSM IPSM 0.25 0.2 IR 10.0 0.2 CJ 500 500 RegJA TJ -	SYMBOL 520 530 540 545 550 560 VRMM 20 30 40 45 50 60 VRMS 14 21 28 31.5 35 42 VDC 20 30 40 45 50 60 IF(AV) 5.0 5.0 5.0 5.0 IFSM 120 59.76 7.0 7.0 VFM 0.55 0.7 7.0 7.0 7.0 IR 10.0 7.0<	SYMBOL 520 530 540 545 550 560 580 VRMM 20 30 40 45 50 60 80 VRMS 14 21 28 31.5 35 42 56 VDC 20 30 40 45 50 60 80 IF(AV) 55.0 5.0 5.0 50 60 80 IFSM 120 59.76 70 <	SYMBOL 520 530 540 545 550 560 580 5100 VRRM 20 30 40 45 50 60 80 100 VRMS 14 21 28 31.5 35 42 56 70 VDC 20 30 40 45 50 60 80 100 IF(AV) 5.0 IFSM 120 120 120 120 120 120 120 120 120 120 120 120 120 14 20 25 10.0 350 10.0 25 10.0 25 10.0 25 <td< td=""><td> SYMBOL 520 530 540 545 550 560 580 5100 5150 VRRM 20 30 40 45 50 60 80 100 150 VRMS 14 21 28 31.5 35 42 56 70 105 VDC 20 30 40 45 50 60 80 100 150 IF(AV)</td><td>SYMBOL 520 530 540 545 550 560 580 5100 5150 5200 VRRM 20 30 40 45 50 60 80 100 150 200 VRMS 14 21 28 31.5 35 42 56 70 105 140 VDC 20 30 40 45 50 60 80 100 150 200 IF(AV) 5.0 IFSM 120 120 120 120 IR 0.7 0.85 0.92 10.0 5.0 CJ 500 350 RegJA 25 TJ -55 to + 150</td><td>SYMBOL 520 530 540 545 550 560 580 5100 5150 5200 5250 VRRM 20 30 40 45 50 60 80 100 150 200 250 VRMS 14 21 28 31.5 35 42 56 70 105 140 175 VDC 20 30 40 45 50 60 80 100 150 200 250 IF(AV) 5.0 IFSM 120 59.76 VFM 0.55 0.2 0.05 0.05 0.05 0.092 0.95 IR 10.0 5.0 5.0 5.0 0.05</td></td<>	SYMBOL 520 530 540 545 550 560 580 5100 5150 VRRM 20 30 40 45 50 60 80 100 150 VRMS 14 21 28 31.5 35 42 56 70 105 VDC 20 30 40 45 50 60 80 100 150 IF(AV)	SYMBOL 520 530 540 545 550 560 580 5100 5150 5200 VRRM 20 30 40 45 50 60 80 100 150 200 VRMS 14 21 28 31.5 35 42 56 70 105 140 VDC 20 30 40 45 50 60 80 100 150 200 IF(AV) 5.0 IFSM 120 120 120 120 IR 0.7 0.85 0.92 10.0 5.0 CJ 500 350 RegJA 25 TJ -55 to + 150	SYMBOL 520 530 540 545 550 560 580 5100 5150 5200 5250 VRRM 20 30 40 45 50 60 80 100 150 200 250 VRMS 14 21 28 31.5 35 42 56 70 105 140 175 VDC 20 30 40 45 50 60 80 100 150 200 250 IF(AV) 5.0 IFSM 120 59.76 VFM 0.55 0.2 0.05 0.05 0.05 0.092 0.95 IR 10.0 5.0 5.0 5.0 0.05

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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FIG. 1 - FORWARD CURRENT DERATING CURVE

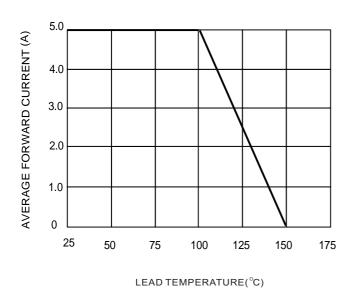


FIG.2-TYPICAL FORWARD CHARACTERISTICS

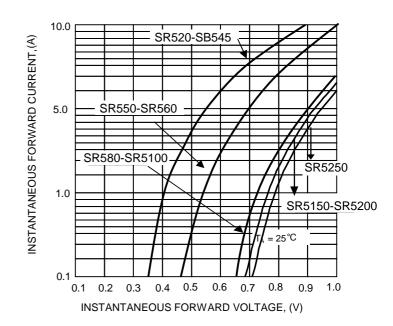


FIG. 3 MAXIMUM NON-REPETITIVE SURGE CURRENT

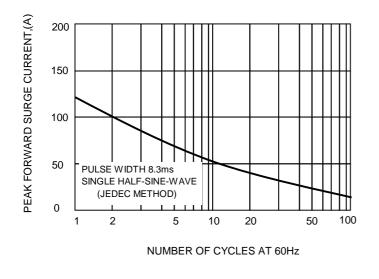
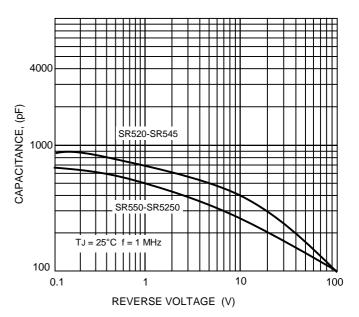


FIG.4 TYPICAL JUNCTION CAPACITANCE





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