



PINGWEI ENTERPRISE

SR520/SB520 THRU SR5200/SB5200

5.0AMPS. SCHOTTKY BARRIER RECTIFIERS

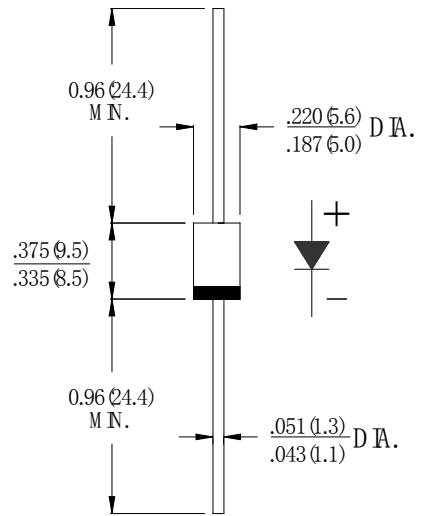
FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed
260°C /10sec/ 0.375" lead length at 5 lbs tension

MECHANICAL DATA

- . Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
- . Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy
- . Polarity: color band denotes cathode
- . Mounting position: any

DO-27/DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	SYMBOL	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR	units	
		520	530	540	550	560	580	590	5100	5150	5200		
		SB	SB	SB	SB	SB	SB	SB	SB	SB	SB		
		520	530	540	550	560	580	590	5100	5150	5200		
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	150	200	V	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	70	105	140	V	
Maximum DC blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	150	200	V	
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at $T_L = 90^\circ\text{C}$	$I_{F(AV)}$	5.0										A	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	120.0										A	
Maximum Forward Voltage at 5.0A DC	V_F	0.45	0.55	0.70	0.85	0.95						V	
Maximum DC Reverse Current at rated DC blocking voltage	I_R	@ $T_A = 25^\circ\text{C}$	0.5				0.1					mA	
		@ $T_A = 100^\circ\text{C}$	40.0				10.0						
Typical Junction Capacitance (Note 1)	C_J	500					112					pF	
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	40										$^\circ\text{C/W}$	
Storage Temperature	T_{STG}	-55 to +150										$^\circ\text{C}$	
Operation Junction Temperature	T_J	-55 to +125				-55 to +150							$^\circ\text{C}$

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) lead length, vertical P.C. Board Mounted.