



PINGWEI ENTERPRISE

SR520/SB520 THRU SR5200/SB5200

5.0AMPS. SCHOTTKY BARRIER RECTIFIERS

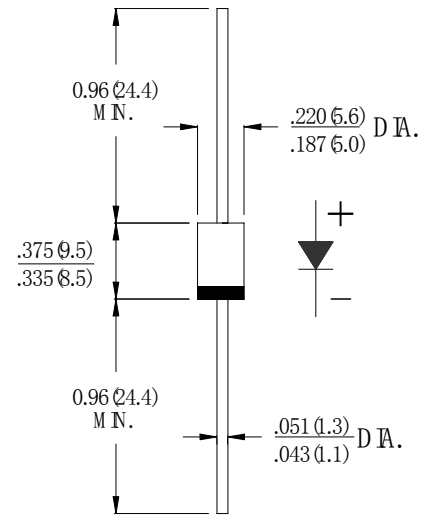
FEATURE

- . 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 520	SR 530	SR 540	SR 550	SR 560	SR 580	SR 590	SR 5100	SR 5150	SR 5200	units
			SB 520	SB 530	SB 540	SB 550	SB 560	SB 580	SB 590	SB 5100	SB 5150	SB 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°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	@T _A =25°C @T _A =100°C	I_R	0.5 40.0					0.1 10.0					mA
Typical Junction Capacitance (Note 1)		C_J	500					112					pF
Typical Thermal Resistance (Note 2)		$R_{(JA)}$	40										°C/W
Storage Temperature		T_{STG}	-55 to +150										°C
Operation Junction Temperature		T_J	-55 to +125			-55 to +150							°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.