PINGWEI ENTERPRISE

SR120/SB120 THRU SR1200/SB1200

1.0AMP. SCHOTTKY BARRIER RECTIFIERS

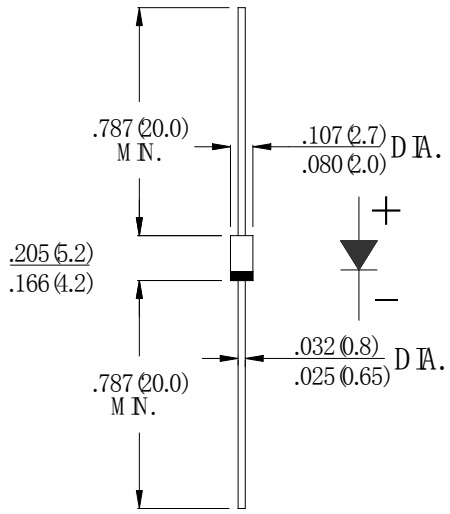
FEATURE

. 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-41



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ 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 120 / SB 120	SR 130 / SB 130	SR 140 / SB 140	SR 150 / SB 150	SR 160 / SB 160	SR 180 / SB 180	SR 190 / SB 190	SR 1100 / SB 1100	SR 1150 / SB 1150	SR 1200 / SB 1200	units
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	$I_{F(AV)}$	1.0										A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0										A
Maximum Forward Voltage at 1.0A DC	V_F	0.45	0.55		0.70		0.85			0.95		V
Maximum DC Reverse Current @T_A=25°C at rated DC blocking voltage @T_A =100°C	I_R	0.5 40.0					0.1 10.0					mA
Typical Junction Capacitance (Note 1)	C_J	110					28					pF
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	75										℃/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.