

SB220 THRU SB2B0

SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage – 20 to 100 Volts

Forward Current – 2.0 Amperes

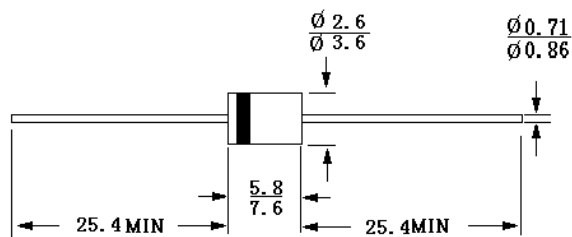
Features

- 2.0 ampere operation at $T_L = 75^\circ\text{C}$ with no thermal runaway
- For use in low voltage, high frequency inverters free wheeling ,and polarity protection applications

Mechanical Data

- Case: Molded plastic, DO-15
- Terminals: Axial leads, solderable per MIL-STD-202, method 208
- Polarity: Color band denotes cathode
- Mounting Position: Any

DO-15



Dimensions in mm

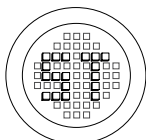
Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

	Symbols	SB	SB	SB	SB	SB	SB	SB	SB	SB	Units
		220	230	240	250	260	270	280	290	2B0	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	70	80	90	100	Volts
Maximum average forward rectified current 0.375"(9.5mm) lead length at $T_L = 75^\circ\text{C}$	$I_{(AV)}$	2									Amp
Peak forward surge current, I_{FM} (surge): 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I_{FSM}	50									Amps
Maximum forward voltage at 2.0A	V_F	0.55			0.7			0.85			Volts
Maximum full load reverse current, full cycle average at $T_A = 75^\circ\text{C}$	$I_{R(AV)}$	30									mA
Maximum DC reverse current at rated DC blocking voltage $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$	I_R	2 20									mA
Typical junction capacitance (Note 1)	C_J	170									pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	35									$^\circ\text{C/W}$
Operating and storage temperature range	T_J, T_S	-50 to +125									$^\circ\text{C}$

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4VDC.
- (2) Thermal resistance junction to ambient



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РАДИОТЕХ-ТРЕЙД

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru