
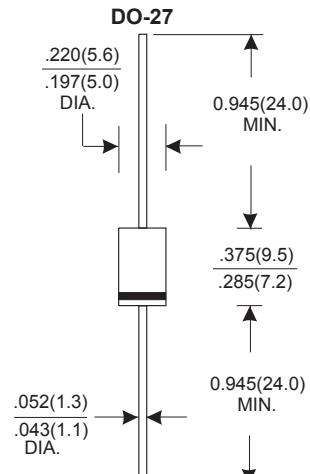


YZPST-SB520 THRU SB5200

5.0 AMP SCHOTTKY BARRIER RECTIFIERS

 <p>FEATURES</p> <ul style="list-style-type: none"> * Low forward voltage drop * High current capability * High reliability * High surge current capability * Epitaxial construction <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> * Case: Molded plastic * Epoxy: UL 94V-0 rate flame retardant * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed * Polarity: Color band denotes cathode end * Mounting position: Any * Weight: 1.00 grams * Both normal and Pb free product are available: * Normal: 80~95%Sn, 5~20%Pb * Pb free: 99 Sn above can meet Rohs environment substance directive request 	<p style="text-align: center;">VOLTAGE RANGE 20 to 200 Volts</p> <p style="text-align: center;">CURRENT 5.0 Amperes</p> <div style="text-align: center;">  <p style="font-size: small;">Dimensions in inches and (millimeters)</p> </div>
---	---

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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	SB520	SB540	SB540	SB580	SB5100	SB5150	SB5200	UNITS	
Maximum Recurrent Peak Reverse Voltage	20	40	60	80	100	150	200	V	
Maximum RMS Voltage	14	32	42	56	70	105	140	V	
Maximum DC Blocking Voltage	20	40	60	80	100	150	200	V	
Maximum Average Forward Rectified Current									
See Fig. 1								5.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								150	A
Maximum Instantaneous Forward Voltage at 5.0A	0.55	0.70					0.85	V	
Maximum DC Reverse Current Ta=25°C								200	uA
at Rated DC Blocking Voltage Ta=100°C								20	mA
Typical Junction Capacitance (Note1)								380	pF
Typical Thermal Resistance RθJA (Note 2)								10	°C/W
Operating Temperature Range Tj								-65 — +150	°C
Storage Temperature Range Tstg								-65 — +150	°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.

RATING AND CHARACTERISTIC CURVES SB520 THRU SB5200

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

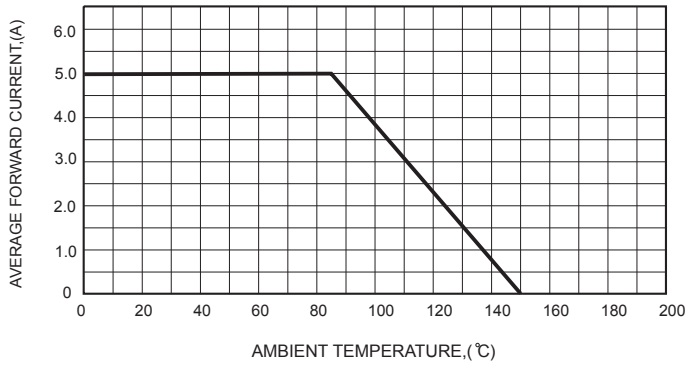


FIG.2-TYPICAL FORWARD CHARACTERISTICS

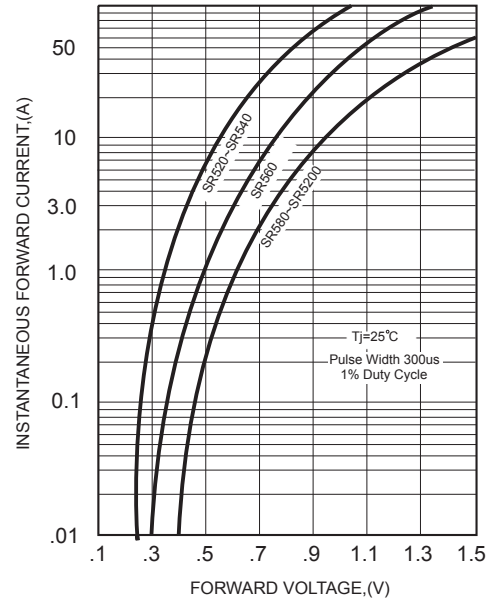


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

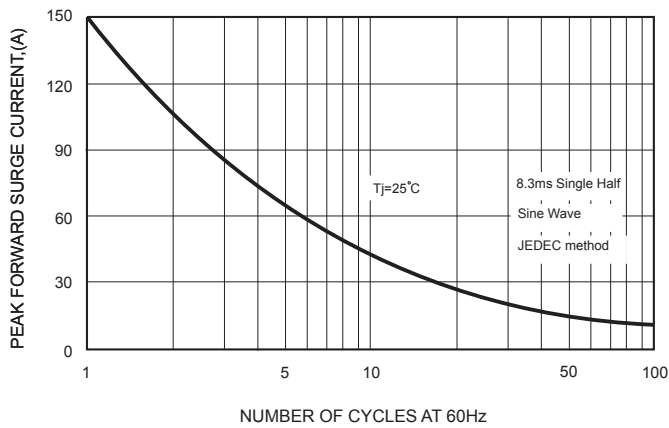


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

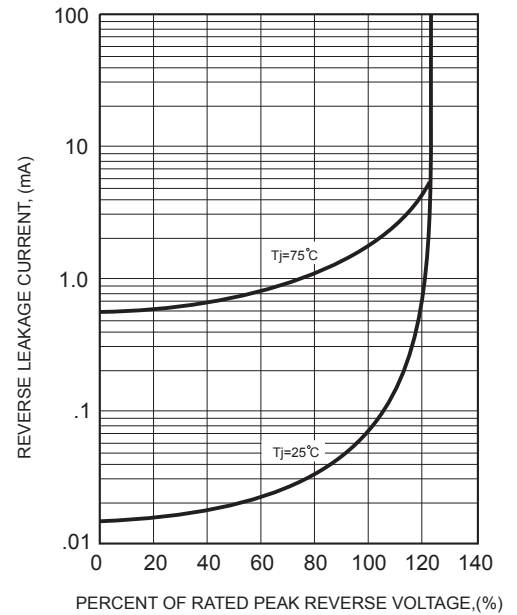


FIG.4-TYPICAL JUNCTION CAPACITANCE

