



SB520H thru SB5150H

SCHOTTKY BARRIER RECTIFIERS

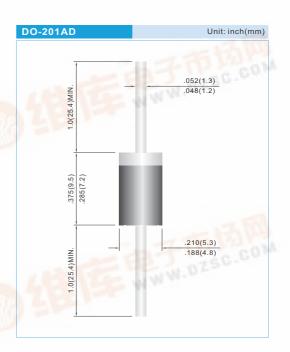
VOLTAGE 20 to 150 Volts CURRENT 5 Amperes

FEATURES

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O utilizing
 Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage, high frequency inverters ,free wheeling , and polarity protection applications .
- Pb free product: 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

- Case: DO-201AD Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Mounting Position: Any
- Weight: 0.04 ounces, 1.1 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SB520H	SB530H	SB540H	SB550H	SB560H	SB580H	SB5100H	SB5150H	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	٧
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T _A =60°C	I _{F(AV)}	5								Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	150							А	
Maximum Forward Voltage at 5.0A	V _F	0.55 0.70 0.85 0.92					0.92	٧		
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =100°C	I _R	0.5 50						mA		
Maximuml Thermal Resistance (Note 1)	R _{eJL}	15 10						°C / W		
Operating Junctione Temperature Range	SC.C	-50 to +150								°C
Storage Temperature Range	T _{STG}	-50 to +150								°C



df.dzsc.com







SB520H thru SB5150H

RATING AND CHARACTERISTIC CURVES

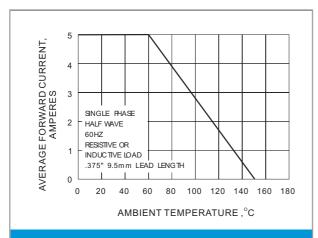


Fig.1- FORWARD CURRENT DERATING CURVE

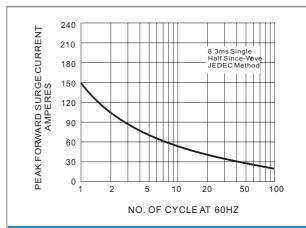


Fig.2- TMAXIMUM NON - REPETITIVE SURGE CURRENT

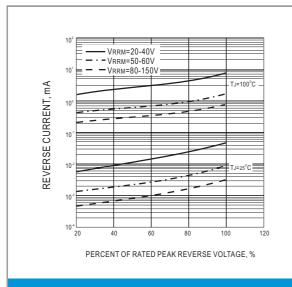


Fig.3-TYPICAL REVERSE CHARACTERISTIC

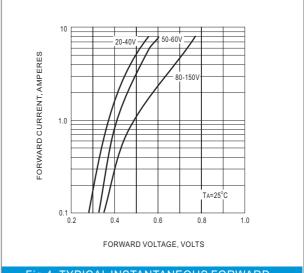


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHRARCTERISTIC

LEGAL STATEMENT

Copyright PanJit International, Inc 2006

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.