



SCHOTTKY BARRIER RECTIFIERS

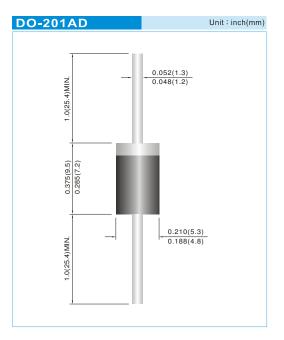
VOLTAGE 20 to 60 Volts CURRENT 5 Amperes

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.
- Lead free in comply with EU RoHS 2002/95/EC directives

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: 0.039 ounces, 1.122 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.

			1				
PARAMETER	SYMBOL	SB520	SB530	SB540	SB550	SB560	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current (See Fig 1)	I _{F(AV)}	5				Α	
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	I _{FSM}	150					Α
Maximum Forward Voltage at 5.0A (NOTES 3)	V _F	0.55 0.			70	V	
Maximum DC Reverse Current at Rated DC $T_J=25^{\circ}C$ Blocking Voltage $T_J=100^{\circ}C$	I _R	0.2 50			0.1 50		m A
Typical Thermal Resistance (NOTES 2) (NOTES 1) (NOTES 1)	$egin{array}{c} {\sf R}_{_{ heta {\sf JC}}} \ {\sf R}_{_{ heta {\sf JL}}} \end{array}$	50 12 15				°C / W	
Power Dissipation	P _D	5				W	
Operating Junction Temperature Range	TJ	-55 to +125 -55 to +150			°C		
Storage Temperature Range	Тѕтс	-55 to +150			°C		

NOTES:

- 1. Measured at ambient temperature at a distance of 9.5mm from the case
- 2. Minimum Pad Area
- 3. Pulse test : $300\mu s$ pulse width, 1% duty cycle





RATING AND CHARACTERISTIC CURVES

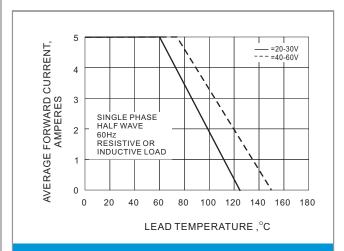


Fig.1- FORWARD CURRENT DERATING CURVE

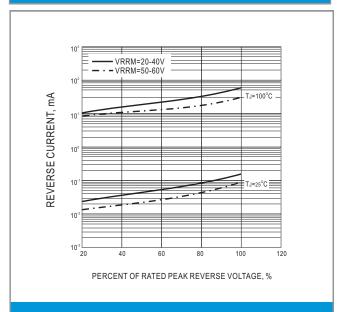


Fig.3-TYPICAL REVERSE CHARACTERISTIC

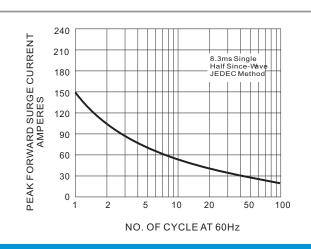


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

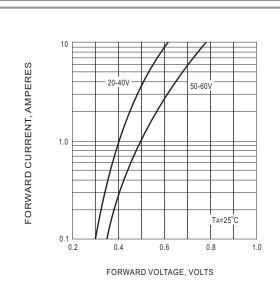
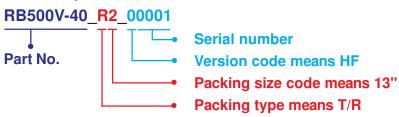


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





For example:



Packing Code XX			Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
T/B	A	N/A	0	HF	0	serial number	
T/R	R	7''	1	RoHS	1	serial number	
B/P	В	13"	2				
T/P	Т	26mm	X				
TRR	S	52mm	Υ				
TRL	L	PBCU	U				
FORMING	F	PBCD	D				

Part No_packing code_Version

SB520_AY_00001

SB520_AY_10001

SB520_B0_00001

SB520_B0_10001

SB520_R2_00001

SB520_R2_10001





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.