



SCHOTTKY BARRIER RECTIFIERS

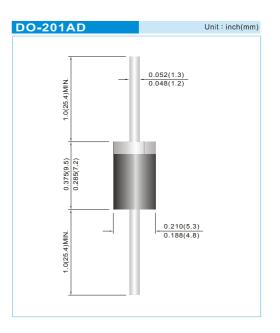
VOLTAGE 20 to 60 Volt CURRENT 5 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- ESD Passed devices : Air mode 15KV, human body mode 8KV
- Lead free in compliance with EU RoHS 2.0

MECHANICAL DATA

- Case: DO-201AD Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode
- · Weight: 0.04 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.

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					А
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	I _{FSM}	150					А
Maximum Forward Voltage at 5A (NOTES 3)	V _F	0.55 0.7			.7	V	
Maximum DC Reverse Current at Rated DC T_j =25°C Blocking Voltage T_j =100°C	I _R	0.2 50 0.1 50				mA	
Typical Thermal Resistance (NOTES 2) (NOTES 1) (NOTES 1)	$R_{\theta JA} \\ R_{\theta JC} \\ R_{\theta JL}$	50 12 15				°C / W	
Power Dissipation	P _D	5					W
Operating Junction Temperature Range	TJ	-55 to	5 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

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RATING AND CHARACTERISTIC CURVES

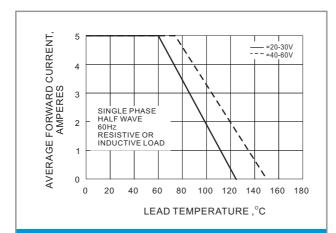


Fig.1 FORWARD CURRENT DERATING CURVE

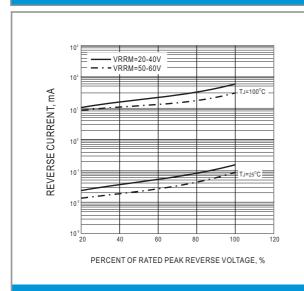


Fig.3 TYPICAL REVERSE CHARACTERISTIC

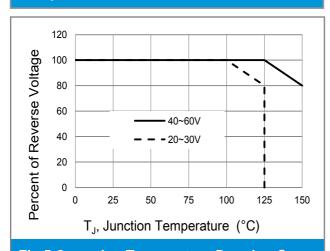


Fig.5 Operating Temperature Derating Curve

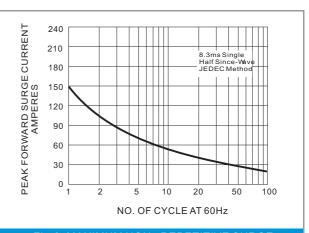


Fig.2 MAXIMUM NON - REPETITIVE SURGE CURRENT

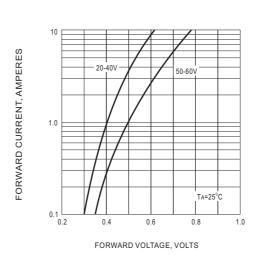


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





Part No_packing code_Version

SB520_AY_00001

SB520_AY_10001

SB520_B0_00001

SB520_B0_10001

SB520_R2_00001

SB520_R2_10001

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	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			-	
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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