



### **SCHOTTKY BARRIER RECTIFIERS**

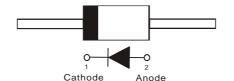
VOLTAGE 20 to 60 Volt CURRENT 3 Ampere

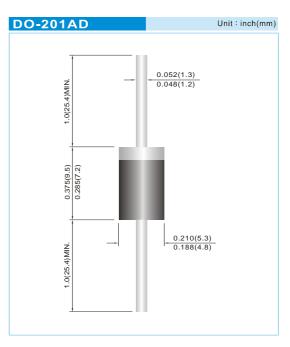
### **FEATURES**

- 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
- Lead free in compliance with EU RoHS 2011/65/EU directive

### **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, 1.142 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	SB320	SB330	SB340	SB350	SB360	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length	I <sub>F(AV)</sub>	3					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	80					А
Maximum Forward Voltage at 3A (Note 3)	V <sub>F</sub>	0.5			0.75		V
Maximum DC Reverse Current at Rated DC Blocking $T_J$ =25°C Voltage $T_J$ =100°C	I <sub>R</sub>	0.2 30			0.1 30		mA
Typical Thermal Resistance (Note 2) (Note 1) (Note 1)	$R_{_{ heta JA}} \ R_{_{ heta JC}} \ R_{_{ heta JL}}$	50 12 15			°C / W		
Operating Junction and Storage Temperature Range	$T_{J},T_{STG}$	-55 to +125 -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: 300µs pulse width, 1% duty cycle





### **RATING AND CHARACTERISTIC CURVES**

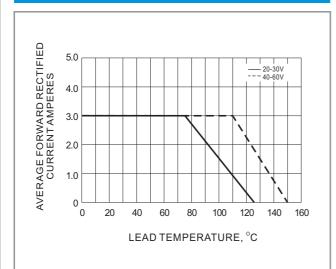


Fig.1 FORWARD CURRENT DERATING CURVE

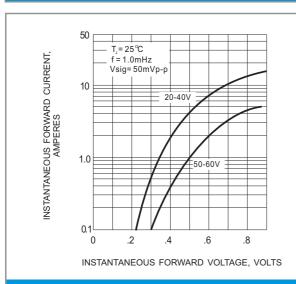
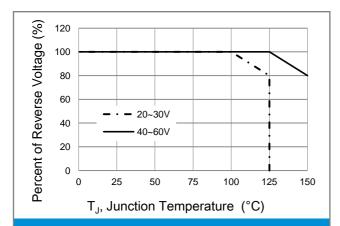


Fig.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



**Fig.5 Operating Temperature Derating Curve** 

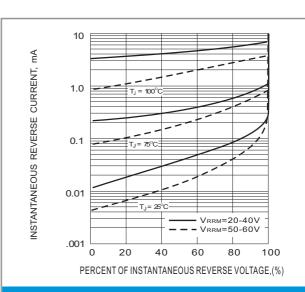


Fig.2 TYPICAL REVERSE CHARACTERISTICS

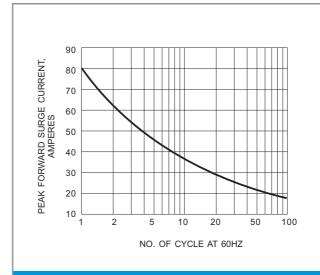


Fig.4 MAXIMUM NON - REPETITIVE SURGE CURRENT





### Part No\_packing code\_Version

SB320\_AY\_00001

SB320\_AY\_10001

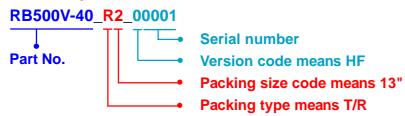
SB320\_B0\_00001

SB320\_B0\_10001

SB320\_R2\_00001

SB320\_R2\_10001

### For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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<u>SB340\_AY\_00001</u> <u>SB340\_AY\_000A7</u> <u>SB340\_AY\_10001</u> <u>SB340\_AY\_100A7</u> <u>SB340\_B0\_00001</u> <u>SB340\_R2\_00001</u> <u>SB340\_R2\_10001</u> <u>SB340\_F0\_100A1</u> <u>SB340\_F0\_100A3</u> <u>SB340\_F0\_100A4</u> <u>SB340\_F0\_100A5</u> <u>SB340\_F0\_100A6</u> <u>SB340\_F0\_100A8</u> <u>SB340\_B0\_10001</u> <u>SB340\_F0\_000A1</u> <u>SB340\_F0\_000A3</u> <u>SB340\_F0\_000A4</u> <u>SB340\_F0\_000A5</u> <u>SB340\_F0\_000A6</u>