



### LOW VF SCHOTTKY BARRIER RECTIFIERS

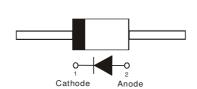
VOLTAGE 100 Volt CURRENT 3 Ampere

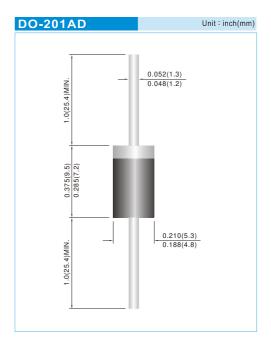
#### **FEATURES**

- 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 (Ta=25°C unless otherwise noted)

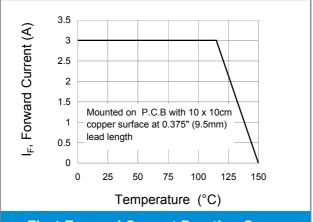
PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	VRRM	100	V
Maximum rms voltage	VRMS	70	V
Maximum average forward rectified current	I F(AV)	3	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I FSM	200	А
Typical thermal resistance	Rөja	45	°C/W
Operating junction temperature range	Tu	-55 to + 150	°C
Storage temperature range	Тѕтс	-55 to + 150	°C

### ELECTRCIAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP.	MAX.	UNIT
Breakdown voltage	VBR	I <sub>R</sub> =0.5mA		100	-	V
Instantaneous forward voltage	VF	I F=1A I F=3A	Ta=25°C	0.50 0.68	- 0.74	V
		IF=1A IF=3A	Ta=125°C	0.42 0.56	- 0.6	V
Reverse current	l R	V <sub>R</sub> =70V		4	-	μΑ
		VR=100V	Ta=25°C Ta=125°C	-	50 50	μA mA







**Fig.1 Forward Current Derating Curve** 

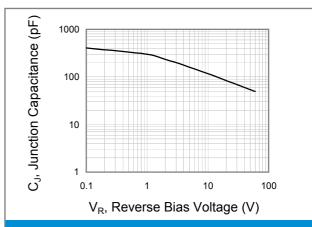


Fig.2 Typical Junction Capacitance

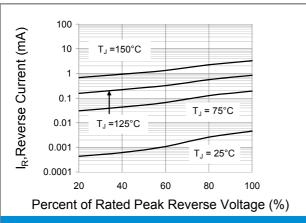


Fig.3 Typical Reverse Characteristics

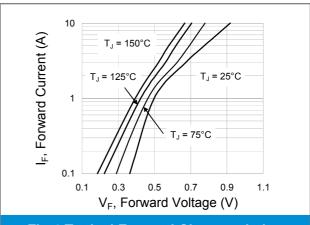
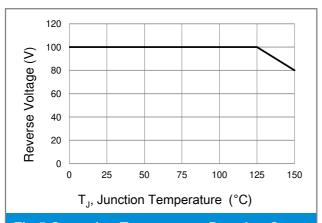


Fig.4 Typical Forward Characteristics



**Fig.5 Operating Temperature Derating Curve** 





### Part No\_packing code\_Version

SB3100L\_AY\_00001

SB3100L\_AY\_10001

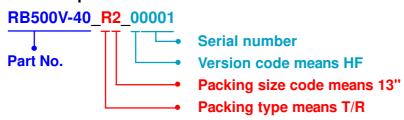
SB3100L\_B0\_00001

SB3100L\_B0\_10001

SB3100L\_R2\_00001

SB3100L\_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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