



LOW VF SCHOTTKY BARRIER RECTIFIERS

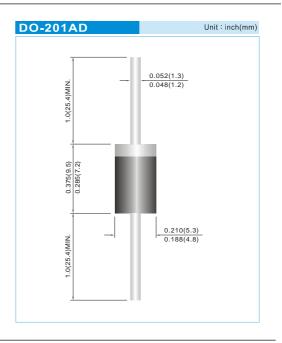
VOLTAGE 100 Volt CURRENT 5 Ampere

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.
- 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: 0.0403 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)	5	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	250	А
Typical Thermal Resistance	Rөja	45	°C/W
Operating junction temperature range	Tı	-55 to + 150	°C
Storage temperature range	Тѕтс	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	TJ=25°C	100	-	V
Instantaneous forward voltage	VF	I F=1A I F=3A I F=5A	TJ=25°C	0.44 0.58 0.68	- - 0.70	V
		I F=1A I F=3A I F=5A	T _J =125°C	0.35 0.49 0.56	- - 0.6	V
Reverse current	l R	VR=70V	TJ=25°C	10	-	μΑ
		VR=100V	TJ=25°C TJ=100°C TJ=125°C	- - -	50 10 50	μΑ mA mA





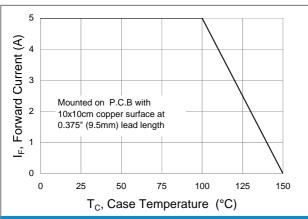


Fig.1 Forward Current Derating Curve

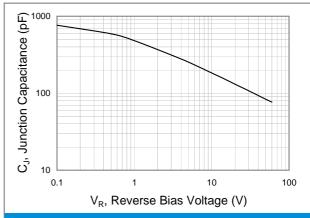


Fig.2 Typical Junction Capacitance

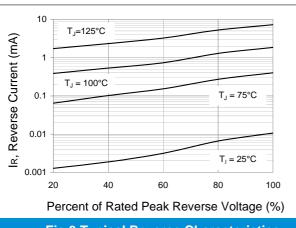
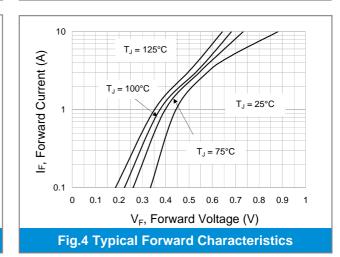


Fig.3 Typical Reverse Characteristics



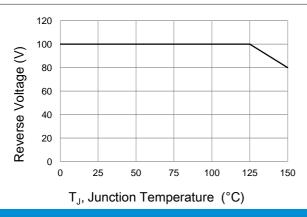


Fig.5 Operating Temperature Derating Curve





Part No_packing code_Version

SB5100L_AY_00001

SB5100L_AY_10001

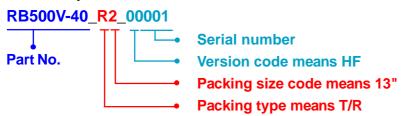
SB5100L_B0_00001

SB5100L_B0_10001

SB5100L_R2_00001

SB5100L_R2_10001

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1st Code	Packing size code	2 nd Code	HF or RoHS	1st 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	Υ				
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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