



EXTREME LOW VF SCHOTTKY RECTIFIER

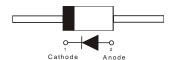
Voltage 100 V Current 3 A

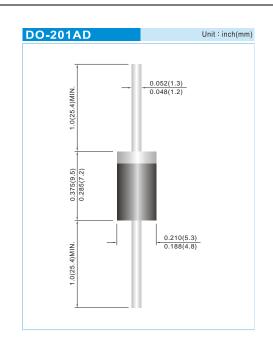
Features

- Extreme low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive.

Mechanical Data

- Case: Molded plastic, DO-201AD
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.0402 ounces, 1.142 grams
- Marking: Part number





Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT	
Maximum repetitive peak reverse voltage		Vrrm	100	V
Maximum rms voltage	VRMS	70	V	
Maximum dc blocking voltage		VR	100	V
Maximum average forward rectified current		lF(AV)	3	Α
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	50	Α
Typical thermal resistance	(Note 1)	$R_{ heta JL}$	23	°C/W
Operating junction temperature range		TJ	-55 to +150	°C
Storage temperature range		Тѕтс	-55 to +150	°C

Note: 1. The testing condition of the thermal resistance (junction to lead) is based on 10mm lead length between two 10 x 10cm copper pad heatsinks.





Electrical Characteristics (T_A=25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	T _J =25°C	100	-	-	V
Instantaneous forward voltage	V _F	I _F =1A	T _J =25°C	-	0.44	-	V
		I _F =3A		-	0.55	0.6	
		I _F =1A	T _J =125°C	-	0.36	-	V
		I _F =3A		-	0.52	-	
Reverse current I		V _R =80V	T _J =25°C	-	3	-	μА
	I _R	V _R =100V	T _J =25°C	-	-	20	μА
			T _J =125°C	-	3	-	mA

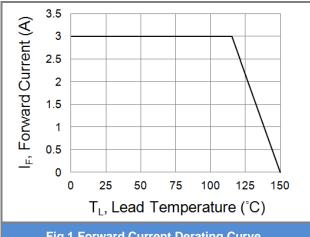
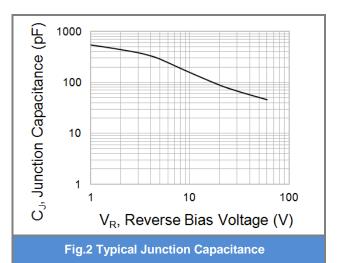
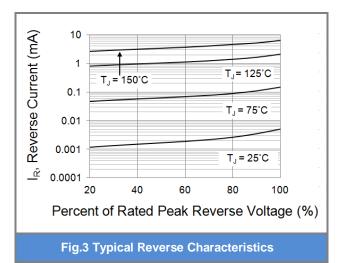
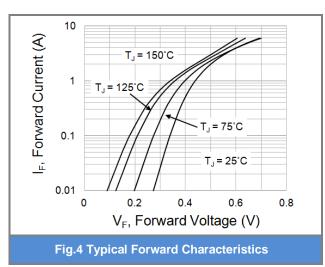


Fig.1 Forward Current Derating Curve











Part No_packing code_Version

SBT3100XSS_AY_00001

SBT3100XSS_AY_10001

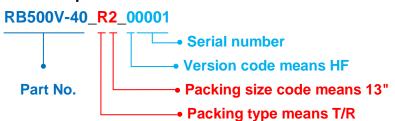
SBT3100XSS_B0_00001

SBT3100XSS_B0_10001

SBT3100XSS_R2_00001

SBT3100XSS_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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December 25,2015-REV.00

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