

SBT10100VSS



CURRENT

10 Ampere

VOLTAGE

FEATURES

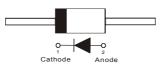
· Ultra low forward voltage drop, low power loss

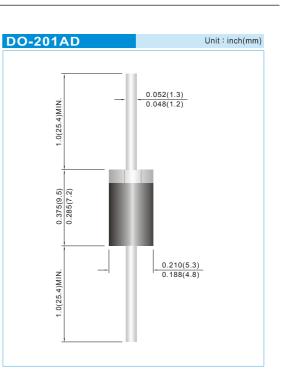
100 Volt

- · High efficiency operation
- · Lead free in compliance with EU RoHS 2.0

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





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 dc blocking voltage		Vr	100	V
Maximum average forward rectified current		I F(AV)	10	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I FSM	120	А
Typical thermal resistance	(Note 1) (Note 2)	Roja Rojl	60 10	°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 ambient) is based on 10 mm lead length between mini copper pad.

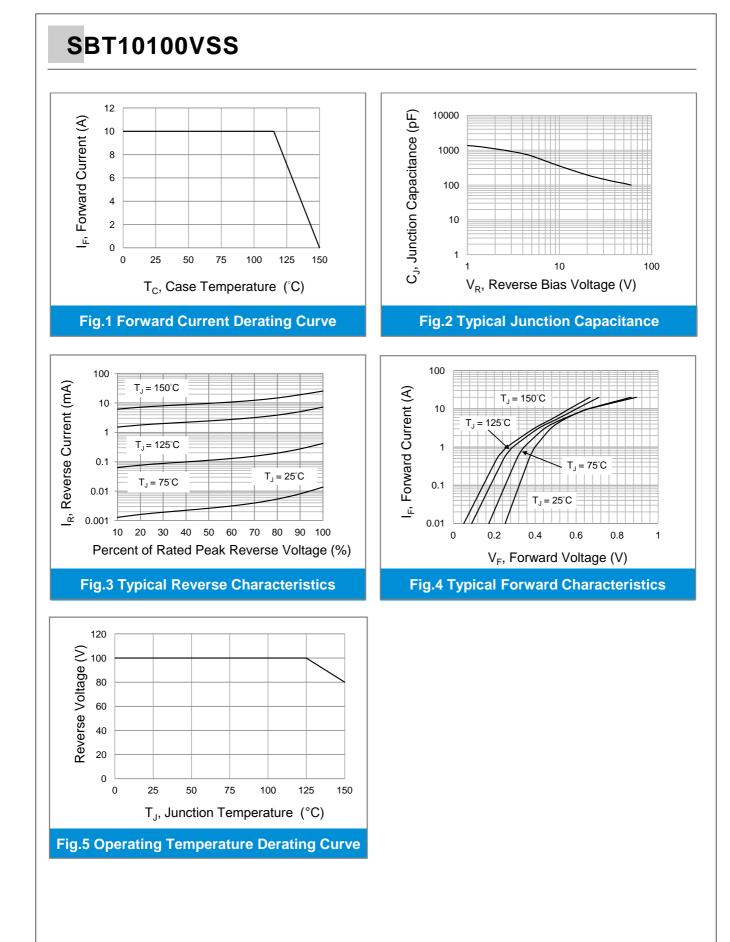
2. The testing condition of the thermal resistance (junction to lead) is based on 0 mm lead length between two 10cm x 10cm x1mm copper pad.



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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT	
Breakdown voltage	VBR	IR=0.5mA	TJ=25⁰C	100	-	-	v	
Instantaneous forward voltage	VF	I F=1A I F=5A I F=10A I F=1A	TJ=25°C	- - -	0.4 0.53 0.68 0.29	- - 0.74 -	V	
		I F=5A	TJ=125℃	-	0.49	-	V	
Reverse current	ΙR	VR=80V	TJ=25°C	-	5	-	μA	
		Vr=100V	Tյ=25⁰C Tյ=125⁰C	-	- 10	50 -	μA mA	











SBT10100VSS

Part No_packing code_Version

SBT10100VSS_AY_00001 SBT10100VSS_AY_10001 SBT10100VSS_B0_00001 SBT10100VSS_B0_10001 SBT10100VSS_R2_00001 SBT10100VSS_R2_10001

For example :

RB500V-40_R2_00001



Serial number
Version code means HF
Packing size code means 13"
Packing type means T/R

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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