

## SBT10100VSS

### ULTRA LOW VF SCHOTTKY RECTIFIER

CURRENT

## VOLTAGE

#### FEATURES

• Ultra low forward voltage drop, low power loss

100 Volt

- · High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

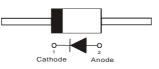
#### **MECHANICAL DATA**

Case : Molded plastic, DO-201AD

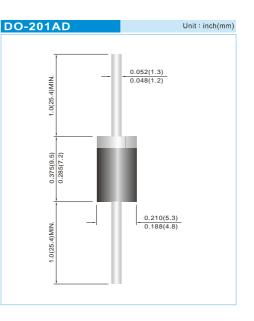
Terminals : Axial leads, solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

Approx weight : 0.0402 ounces, 1.142 grams



10 Ampere



#### 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	A
Typical junction capacitance (VR=4V, f=1MHz)		CJ	510	pF
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.

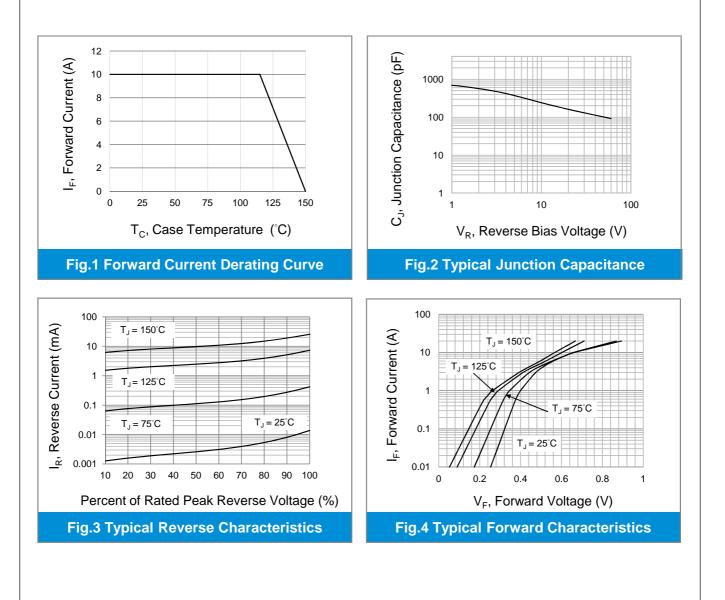
2. The testing condition of the thermal resistance (junction to lead) is based on 0 mm lead length between two 10cm x 10cm x1mm copper pad.



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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	TJ=25°C	100	-	-	v
Instantaneous forward voltage		I F=1A I F=5A I F=10A	TJ=25℃	- - -	0.4 0.53 0.68	- - 0.74	V
		I	TJ=125℃	-	0.29 0.49	-	V
Reverse current	l r	VR=80V	TJ=25℃	-	5	-	μΑ
		Vr=100V	TJ=25°C TJ=125°C	-	- 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 <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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