# SBT15100VSS

## ULTRA LOW VF SCHOTTKY RECTIFIER

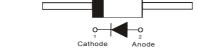
VOLTAGE 100 Volt CURRENT 15 Ampere

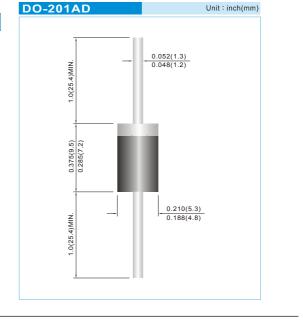
### FEATURES

- · Ultra low forward voltage drop, low power loss
- · 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		F(AV)	15	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I FSM	200	А
Typical thermal resistance	(Note 1)	Røjl	6.5	°C/W
Operating junction temperature range		Тı	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

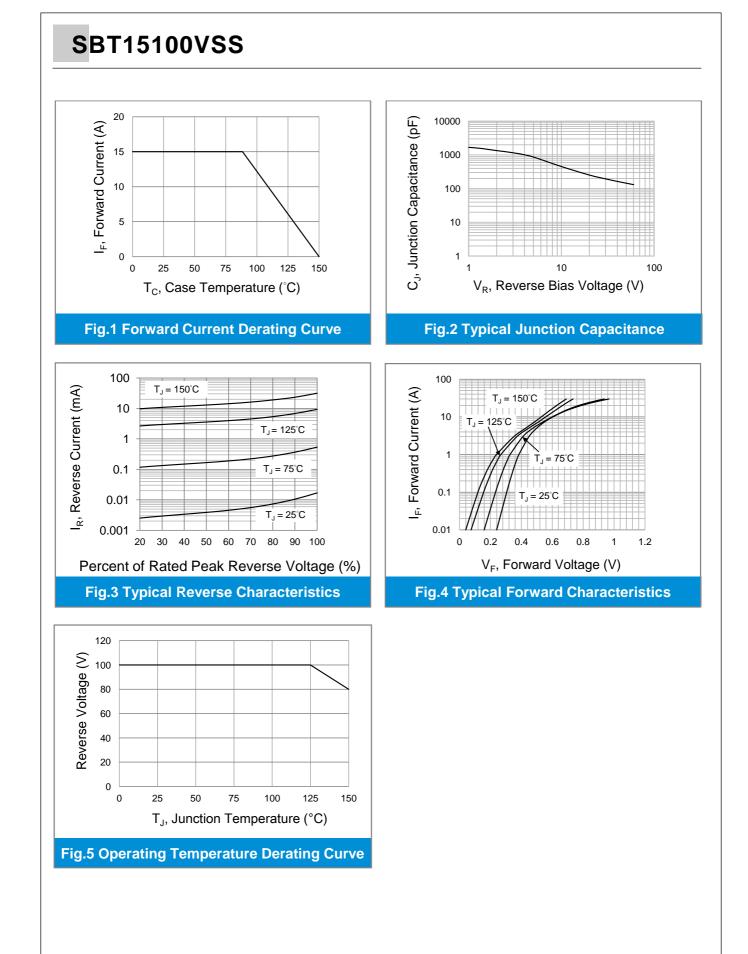
#### ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	Vbr	I R=0.5mA	TJ=25°C	100	-	-	v
Instantaneous forward voltage	VF	I F=1A I F=5A I F=15A	TJ=25℃	- - -	0.38 0.5 0.7	- - 0.76	v
		I ⊧=1A I ⊧=5A	TJ=125℃		0.27 0.45	-	V
Reverse current	l r	VR=80V	TJ=25℃	-	8	-	μΑ
		VR=100V	TJ=25°C TJ=125°C	-	- 10	50 -	μA mA

Note : 1. The testing condition of the thermal resistance (junction to lead) is based on 0 mm lead length between two

10cm x 10cm x 0.5mm copper pad heatsinks.













# SBT15100VSS

### Part No\_packing code\_Version

SBT15100VSS\_AY\_00001 SBT15100VSS\_AY\_10001 SBT15100VSS\_B0\_00001 SBT15100VSS\_B0\_10001 SBT15100VSS\_R2\_00001 SBT15100VSS\_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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