

SBT5100VSS

ULTRA LOW VF SCHOTTKY RECTIFIER

CURRENT

VOLTAGE

FEATURES

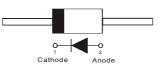
· Ultra low forward voltage drop, low power loss

100 Volt

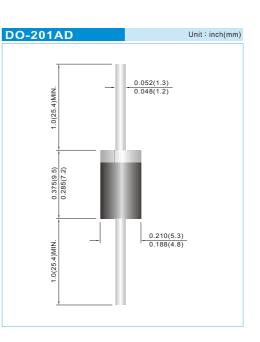
- · High efficiency operation
- · Lead free in compliance with EU RoHS 2.0

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



5 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)	5	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I FSM	110	А
Typical thermal resistance (Note	e 1) R⊚j∟	23	°C/W
Operating junction temperature range	TJ	-55 to + 150	°C
Storage temperature range	Тята	-55 to + 150	°C

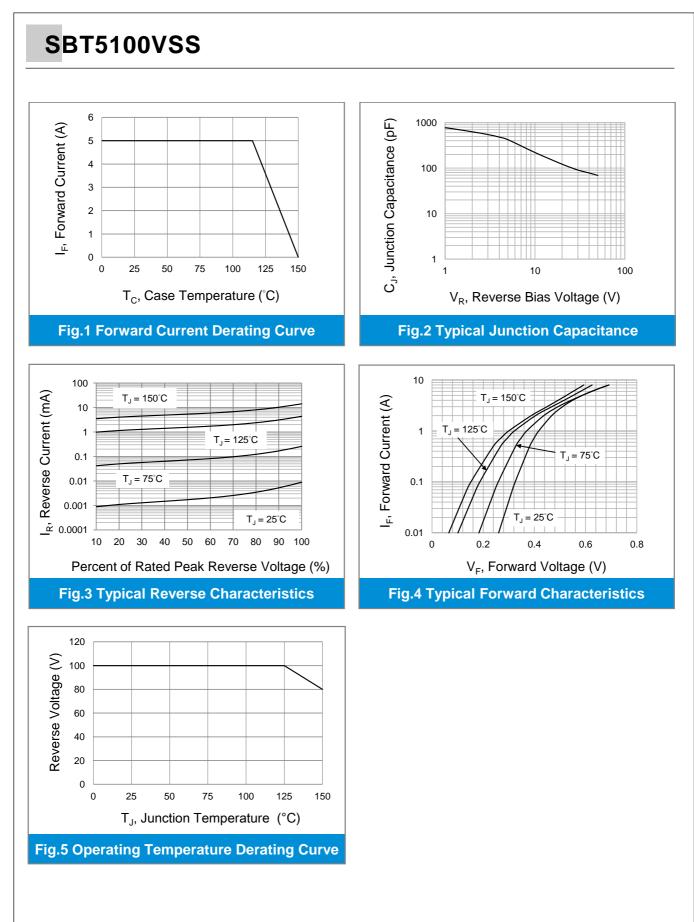
Note : 1.The testing condition of the thermal resistance (junction to lead) is based on 10 mm lead length between two 10cm x 10cm x 0.5mm copper pad.



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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	VF	I F=1A I F=3A I F=5A	TJ=25℃	- - -	0.42 0.51 0.59	- - 0.65	v
		I F=1A I F=3A	TJ=125℃	-	0.32 0.47	-	V
Reverse current	l r	VR=80V	TJ=25℃	-	5	-	μA
		V _R =100V	TJ=25°C TJ=125°C	-	- 5	50 -	μA mA











SBT5100VSS

Part No_packing code_Version

SBT5100VSS_AY_00001 SBT5100VSS_AY_10001 SBT5100VSS_B0_00001 SBT5100VSS_B0_10001 SBT5100VSS_R2_00001 SBT5100VSS_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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