



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 100 Volt CURRENT 20 Ampere

FEATURES

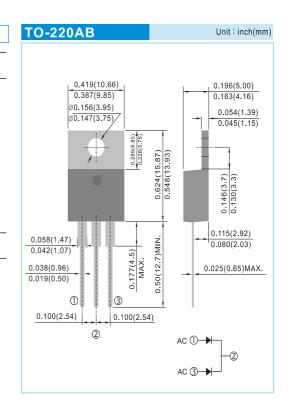
- Ultra Low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

• Case: TO-220AB, Plastic

• Terminals : Solderable per MIL-STD-750, Method 2026

• Weight: 0.067 ounces, 1.89 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	per device per diode	I F(AV)	20 10	Α
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	IFSM	150	А
Typical junction capacitance (VR=4V, f=1MHz)		C¹	620	pF
Typical thermal resistance per diode	(Note 1)	Rejc	2	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note: 1. Mounted on infinite heatsink.





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	VBR	I R=0.5mA		100	-	-	V
Instantaneous forward voltage per diode	VF	I F=3A I F=5A I F=10A	TJ=25°C	- - -	0.47 0.53 0.66 0.4	- - 0.71	V
		F=5A F=5A F=10A	TJ=125°C	-	0.49 0.61	- -	V
Reverse current per diode	l R	VR=70V		-	5	-	μΑ
		V _R =100V	TJ=25°C TJ=125°C	-	- 7.2	80 -	μA mA





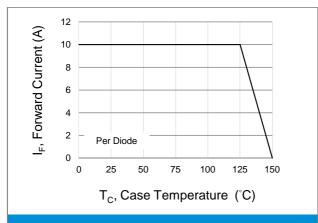


Fig.1 Forward Current Derating Curve

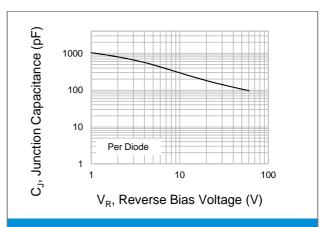


Fig.2 Typical Junction Capacitance

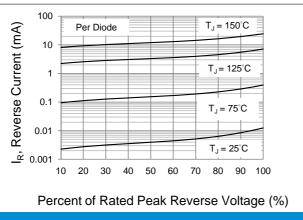


Fig.3 Typical Reverse Characteristics

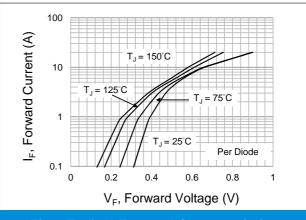


Fig.4 Typical Forward Characteristics

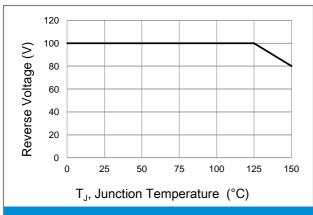


Fig.5 Operating Temperature Derating Curve





Part No_packing code_Version

SBT20100VCT_T0_00001

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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