



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 100 Volts CURRENT 20 Amperes

FEATURES

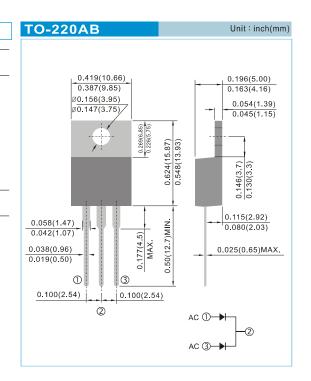
- Ultra Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case: TO-220AB, Plastic

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

Weight: 0.065 ounces, 1.859 grams.



MAXIMUM RATINGS(TA=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	100	٧
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	А
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)		Сл	620	pF
Typical thermal resistance per diode	(Note 1)	R⊚JC	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	IF=3A IF=5A IF=10A IF=3A IF=5A IF=10A	TJ=25°C		0.47 0.53 0.66 0.4 0.49 0.61	- 0.71 - -	V
Reverse current per diode	l _R	V _R =70V V _R =100V	TJ=25°C TJ=125°C	-	5 - 7.2	- 80 -	μA μA mA

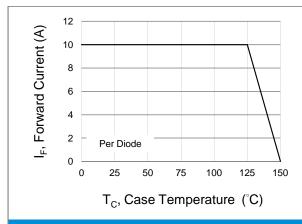


Fig.1 Forward Current Derating Curve

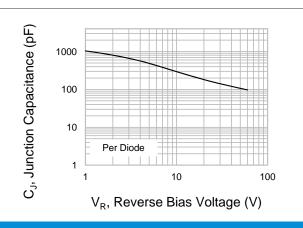
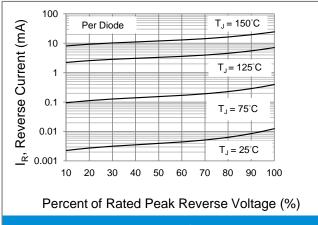


Fig.2 Typical Junction Capacitance





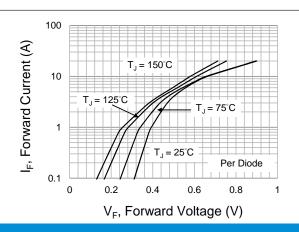


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

SBT20100VCT_T0_00001 SBT20100VCT_T0_10001

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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