



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE100 VoltCURRENT40 Ampere

FEATURES

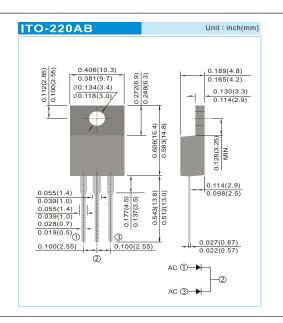
- Ultra low forward voltage drop, low power loss
- · High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

Case: ITO-220AB, Plastic

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

Weight: 0.056 ounces, 1.6 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	l f(AV)	40 20	Α
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		IFSM	250	Α
Typical thermal resistance	(Note 1)	R⊖JC	5.5	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note: 1. Device mounted on a infinite heatsink, then measured the center of the marking side.

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=5A I F=10A I F=20A	TJ=25°C	- - -	0.48 0.57 0.71 0.41	- - 0.76 -	V
Reverse current per diode	l R	VR=70V		-	0.53 5	-	μА
		VR=100V	TJ=25°C TJ=125°C	-	- 12	120 -	μA mA





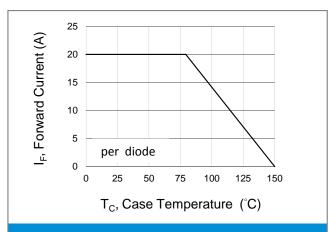


Fig.1 Forward Current Derating Curve

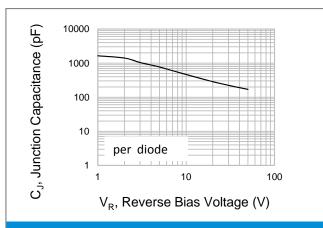


Fig.2 Typical Junction Capacitance

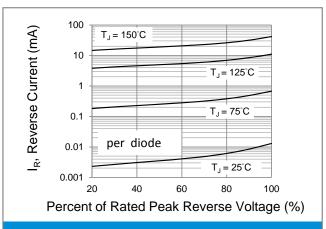


Fig.3 Typical Reverse Characteristics

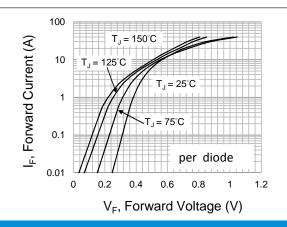


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

SBT40100VFCT_T0_00001 SBT40100VFCT_T0_10001

For example : RB500V-40_R2_00001 Part No. 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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