



#### **ULTRA LOW VF SCHOTTKY RECTIFIER**

VOLTAGE100 VoltCURRENT20 Ampere

#### **FEATURES**

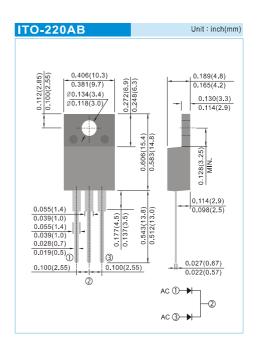
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **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	V
Maximum rms voltage		VRMS	70	V
Maximum dc blocking voltage		VR	100	V
I Maximi im average forward rectified clirrent	per device per diode	l F(AV)	20 10	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	I FSM	150	А
Typical junction capacitance (V <sub>R</sub> =4V, f=1MHz)		Сл	620	pF
Typical thermal resistance per diode (	Note 1)	Rejc	5	°C/W
Operating junction temperature range		Тл	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note: 1. Mounted on infinite heatsink.



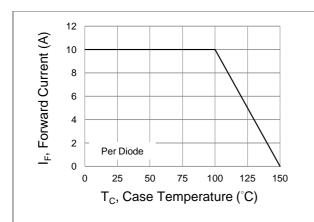


#### ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise noted)

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







**Fig.1 Forward Current Derating Curve** 

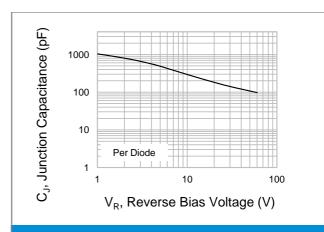


Fig.2 Typical Junction Capacitance

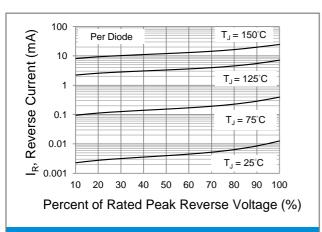
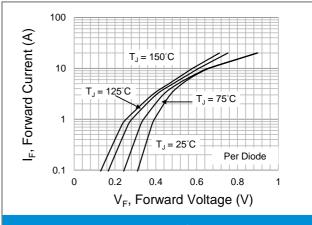
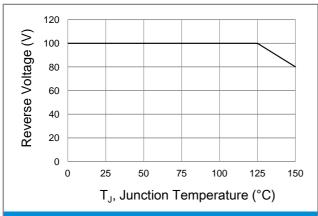


Fig.3 Typical Reverse Characteristics



**Fig.4 Typical Forward Characteristics** 



**Fig.5 Operating Temperature Derating Curve** 





### Part No\_packing code\_Version

SBT20100VFCT\_T0\_00001

#### For example:



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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