



### SCHOTTKY BARRIER RECTIFIERS

Voltage

100 V

Current

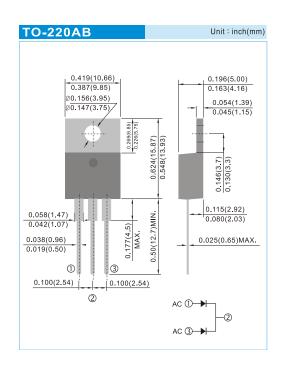
20 A

#### **Features**

- Plastic package has Underwriters Laboratory
   Flammability Classification 94V-O.
   Flame Retardant Epoxy Molding Compound.
- · High surge capacity.
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### Mechanical Data

- Case: Molded plastic, TO-220AB
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.067 ounces, 1.89 grams
- Marking: Part number



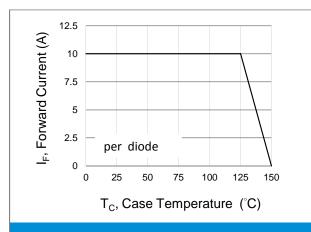
## Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT		
Maximum repetitive peak reverse voltage		Vrrm	100	V	
Maximum rms voltage		VRMS	70	V	
Storage temperature range	VR	100	V		
Maximum average forward rectified current	per device		20	А	
	per diode	<b>I</b> F(AV)	10		
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load per diode		İfsm	120	А	
Maximum forward voltage at 10A per diode	VF	0.8	V		
Maximum dc reverse current at rated dc blo	IR	60	μА		
Typical thermal resistance per diode	(Note 1)	Rojc	2	°C/W	
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range	Тѕтс	-55 to +150	°C		

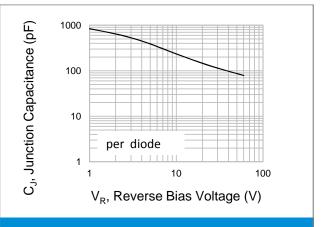
Note: 1. Device mounted on a infinite heatsink.



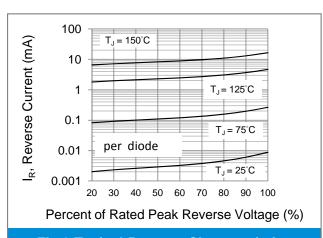




**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 



**Fig.3 Typical Reverse Characteristics** 

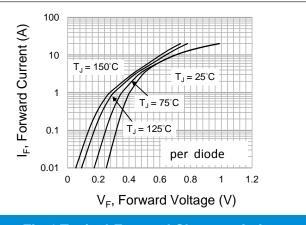
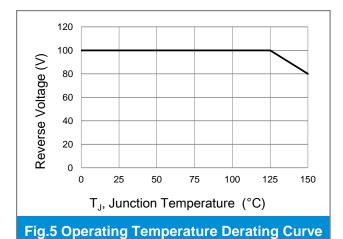


Fig.4 Typical Forward Characteristics



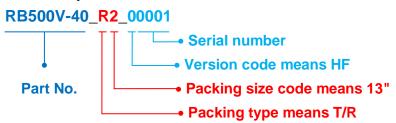




## Part No\_packing code\_Version

SBT20100CT\_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)	A	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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