



ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

10 A 120 V Current

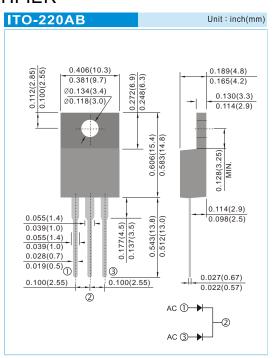
Features

Voltage

- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Lead free in compliance with EU RoHS 2011/65/EU directive

Mechanical Data

- Case: Molded plastic, ITO-220AB
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.056 ounces, 1.6 grams
- Marking: Part number



Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT	
Maximum repetitive peak reverse voltage		Vrrm	120	V	
Maximum rms voltage		VRMS	84	V	
Maximum dc blocking voltage		VR	120	V	
Maximum average forward rectified current	per diode		5	Α	
	per device	IF(AV)	10		
Peak forward surge current : 8.3ms single half sine-		IFSM	00	А	
wave superimposed on rated load per diode			80		
Typical thermal resistance per diode (Note 1)		$R_{\theta JC}$	9	°C/W	
Operating junction temperature range		Тл	-55 to +150	လ	
Storage temperature range		Тѕтс	-55 to +150	ပ္	

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

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Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage per diode	V_{BR}	I _R =0.5mA	TJ=25°C	120	-	-	V
Instantaneous forward voltage per diode	V _F	I _F =1A I _F =2A I _F =5A I _F =1A I _F =2A	T _J =25°C	- - -	0.6 0.68 0.78 0.49 0.56	0.83	V
Reverse current per diode		V _R =96V	TJ=25°C	-	0.7	-	μА
	IR	V _R =120V	T _J =25°C T _J =125°C	-	- 0.7	20 -	μ A mA

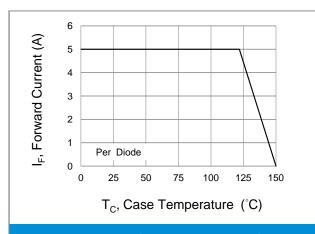


Fig.1 Forward Current Derating Curve

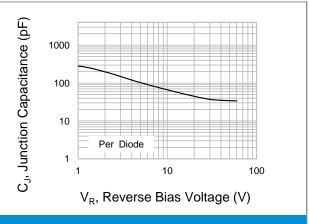


Fig.2 Typical Junction Capacitance

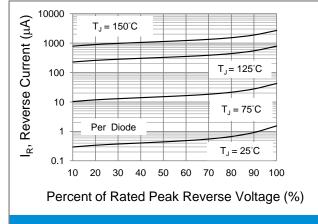


Fig.3 Typical Reverse Characteristics

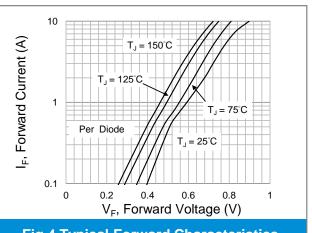


Fig.4 Typical Forward Characteristics

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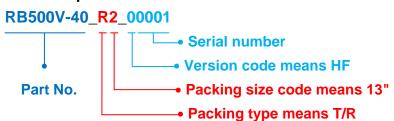




Part No_packing code_Version

SBT10120LFCT_T0_00001 SBT10120LFCT_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)	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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