



ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

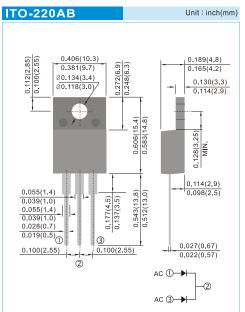
Voltage 120 V Current 30 A

Features

- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Easy pick and place package suitable for automated handling
- 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, 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	lf(AV)	15	А	
	per device		30		
Peak forward surge current : 8.3ms single half sine-		IFSM	200	А	
wave superimposed on rated load per diode			200		
Typical thermal resistance per diode	(Note 1)	$R_{\theta JC}$	6.5	°C/W	
Operating junction temperature range		Тл	-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 (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	$I_{F}=1A$ $I_{F}=5A$ $I_{F}=15A$ $I_{F}=1A$ $I_{F}=5A$	TJ=25°C TJ=125°C		0.48 0.6 0.79 0.38 0.48	- - 0.84 - -	V
Reverse current per diode	I_R	V _R =96V	T _J =25°C	-	2	-	μА
		V _R =120V	T _J =25°C T _J =125°C	-	- 5	30	μA mA

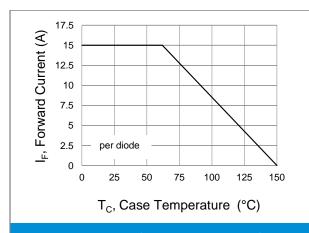


Fig.1 Forward Current Derating Curve

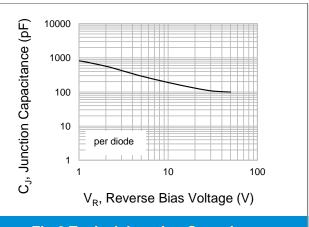


Fig.2 Typical Junction Capacitance

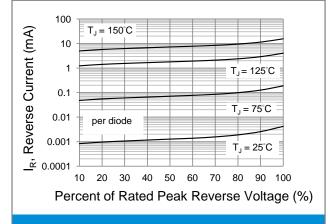


Fig.3 Typical Reverse Characteristics

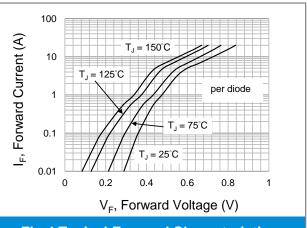


Fig.4 Typical Forward Characteristics

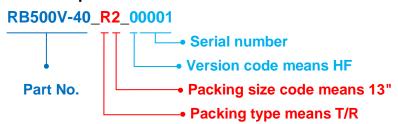




Part No_packing code_Version

SBT30120LFCT_T0_00001

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			





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are
 responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no
 representation or warranty that such applications will be suitable for the specified use without further testing or
 modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit:

SBT30120LFCT_T0_00001