SBT40100UFCT EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER ITO-220AB Unit : inch(mm) Voltage 100 V Current 40 A Features 0.406(10.3) 0.189(4.8) 0 112(2 85) 0 100(2 55) 0.272(6.9) 248(6. • Ideal for automated placement Ø0.134(3.4) 0.130(3.3) Ø0.118(3.0) • Extreme low forward voltage drop, low power loss 0.114(2.9) High efficiency operation • 0.606(15.4) 0.583(14.8) • Low thermal resistance 0.128(3.25) MIN Easy pick and place package suitable for automated handling • . Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive) 0.114(2.9) Green molding compound as per IEC61249 Std. . (Halogen Free) 0.543(13.8) 0.512(13.0) 0.055(1.4 0.177(4.5) 0.137(3.5) 0.039(1.0) 0.055(1.4) 0.039(1.0) 0.028(0.7) Mechanical Data 0.019(0.5) 3 0.027(0.67) 0.100(2.55) 0.100(2.55) • Case: Molded plastic, ITO-220AB 2 • Terminals: solder plated, solderable per MIL-STD-750, Method 2026 AC ①-Approx. Weight: 0.056 ounces, 1.6 grams • -(2) Marking: Part number • AC 3

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

PARAMETER	SYMBOL	LIMIT	UNIT		
Maximum repetitive peak reverse voltage		Vrrm	100	V	
Maximum rms voltage		Vrms	70	V	
Maximum dc blocking voltage		VR	100	V	
Maximum average forward rectified current	per diode	lf(av)	20	А	
	per device		40		
Peak forward surge current : 8.3ms single ha	Ifsm	250	А		
wave superimposed on rated load per diode		200			
Typical thermal resistance per diode (Note 1)		$R_{ extsf{ heta}JC}$	5	°C/W	
Operating junction temperature range	TJ	-55 to +150	°C		
Storage temperature range	Тѕтс	-55 to +150	°C		

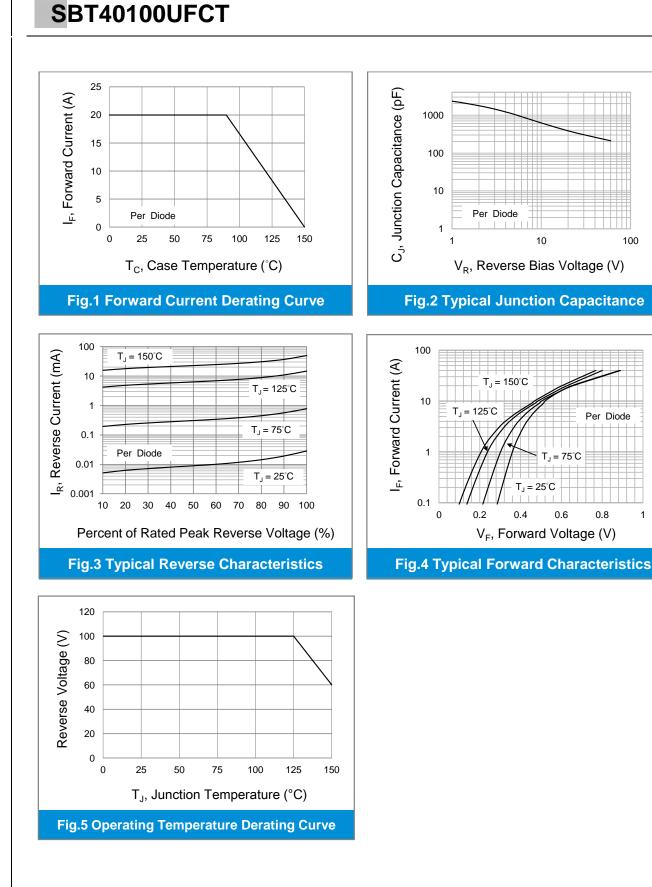
Note : 1. Device mounted on a infinite heatsink , then measured the center of the marking side.



SBT40100UFCT

Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage per diode	V_{BR}	I _R =0.5mA	TJ=25°C	100	-	-	V
Instantaneous forward voltage per diode	V _F	$I_{F}=5A$ $I_{F}=10A$ $I_{F}=20A$ $I_{F}=5A$ $I_{F}=10A$	TJ=25°C TJ=125°C		0.45 0.52 0.65 0.37 0.48	- - 0.7 -	V V
Reverse current per diode	V _R =70V	Tj=25°C Tj=125°C	-	12 7.7	-	μA mA	
	I _R	V _R =100V	TJ=25°C TJ=125°C	-	- 15	120 -	μA mA









SBT40100UFCT

Part No_packing code_Version

SBT40100UFCT_T0_00001

For example :

RB500V-40_R2_00001



• Version code means HF

Serial number

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			



SBT40100UFCT

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.