Features	<u>ດ</u> <u>ດ</u> 0.406(10.3)
 Ideal for automated placement Extreme low forward voltage drop, low power loss High efficiency operation Low thermal resistance Lead free in compliance with EU RoHS 2011/65/EU directive 	⁽⁶⁾ (10.3) ⁽⁷⁾ (10.134(3.4)) ⁽⁷⁾ (10.134(3.4))
Mechanical Data	0.055(1.4)
 Case: Molded plastic, ITO-220AB Terminals: solder plated, solderable per MIL-STD-750,Method 2026 Approx. Weight: 0.056 ounces, 1.6 grams 	$\begin{array}{c c} \hline 0.039(1.0) \\ \hline 0.055(1.4) \\ \hline 0.039(1.0) \\ \hline 0.028(0.7) \\ \hline 0.019(0.5) \\ \hline \end{array} - \begin{array}{c c} \hline \hline$

EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

Current

ITO-220AB

0.100(2.55)

10 A

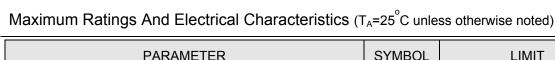
Me

- Ca
- Те
- Approx. Weight: 0.056 ounces, 1.6 grams .

SBT10100UFCT

100 V

Marking: Part number .



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	1	5	А	
	per device	IF(AV)	10		
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load per diode		1	450	А	
		IFSM	150		
Typical thermal resistance per diode	(Note 1)	$R_{ extsf{ heta}JC}$	7	°C/W	
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Tstg	-55 to +150	°C	

Note : 1. Device mounted on a infinite heatsink .

Voltage



Unit : inch(mm)

0.189(4.8) 0.165(4.2)

0.128(3.25) MIN.

0.114(2.9)

0.027(0.67)

0.022(0.57)

-2

AC 1

AC (3)-

0.130(3.3)

0.272(6.9) 0.248(6.3)

0.606(15.4) 0.583(14.8)

0.543(13.8) 0.512(13.0)

0.177(4.5) 0.137(3.5)

0.100(2.55)

3 1

Ż





SBT10100UFCT

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	100	-	-	V
Instantaneous forward voltage per diode	V _F	$I_F=1A$ $I_F=3A$ $I_F=5A$ $I_F=1A$ $I_F=3A$	TJ=25°C TJ=125°C		0.4 0.49 0.56 0.3 0.43	- - 0.61 -	v v
Reverse current per diode		V _R =80V	TJ=25°C	-	5	-	μA
	IR	V _R =100V	Tյ=25°C Tյ=125°C	-	- 5	60 -	μA mA

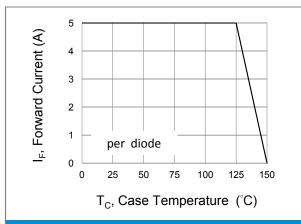


Fig.1 Forward Current Derating Curve

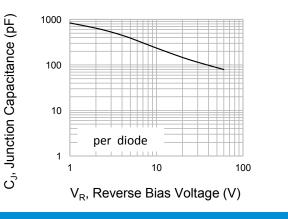
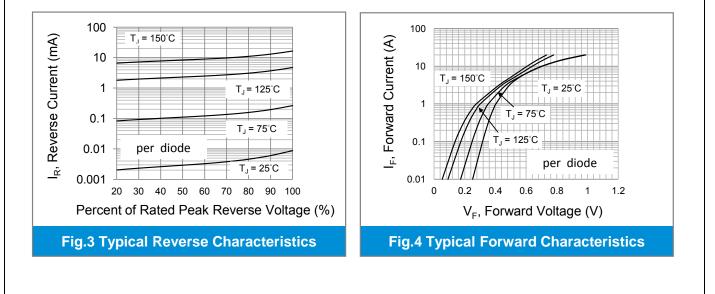


Fig.2 Typical Junction Capacitance







SBT10100UFCT

Part No_packing code_Version

SBT10100UFCT_T0_00001 SBT10100UFCT_T0_10001

For example :

RB500V-40_R2_00001



Version code means HF

Packing size code means 13"

Serial number

• 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)	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			



SBT10100UFCT

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