

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		5	А	
	per device	IF(AV)	10		
Peak forward surge current : 8.3ms single ha	IFSM	150	A		
wave superimposed on rated load per diode		100			
Typical thermal resistance per diode	vpical thermal resistance per diode (Note 1)		7	°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 .



SBT10100UFCT

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	$I_{F}=1A$ $I_{F}=3A$ $I_{F}=5A$ $I_{F}=1A$ $I_{F}=3A$	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	TJ=25°C TJ=125°C		- 5	60 -	μA mA

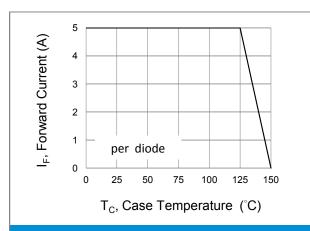
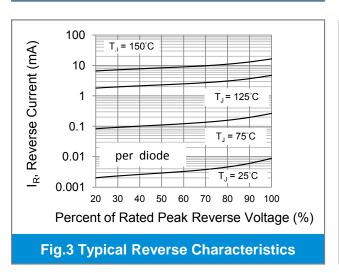


Fig.1 Forward Current Derating Curve



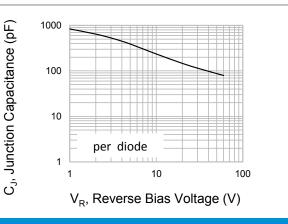
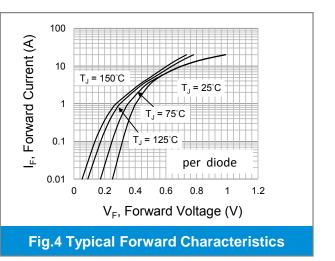


Fig.2 Typical Junction Capacitance







SBT10100UFCT

Part No_packing code_Version

SBT10100UFCT_T0_00001

For example :

RB500V-40_R2_00001



- Version code means HF

Serial number

). | L----• F

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			



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