SBT10120LFCT ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER ITO-220AB Unit : inch(mm) 10 A Voltage 120 V Current Features 0.406(10.3) 0.189(4.8) 0.112(2.85) 0.100(2.55) .272(6.9 248/6. Ø0.134(3.4) Ø0.118(3.0) • Ideal for automated placement 0.130(3.3) • Ultra low forward voltage drop, low power loss 0.114(2.9) High efficiency operation • 5.4) • Low thermal resistance 0.128(3.25) MIN 0.606(1 Lead free in compliance with EU RoHS 2011/65/EU directive • • Green molding compound as per IEC61249 Std. . (Halogen Free) 0.114(2.9) 0.098(2.5) 0.055(1.4) 0.543(13.8) 0.512(13.0) 0.177(4.5) 0.137(3.5) 0.039(1.0) 0.055(1.4) 0.039(1.0) Mechanical Data 0.028(0.7) 0.028(0..., 0.019(0.5) • Case: Molded plastic, ITO-220AB 3 0.027(0.67) 0.100(2.55) 0.100(2.55) • Terminals: solder plated, solderable per MIL-STD-750, Method 2026 Ż • Approx. Weight: 0.056 ounces, 1.6 grams AC 11-Marking: Part number • -(2) AC (3)-

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)	5	A	
	per device		10		
Peak forward surge current : 8.3ms single ha wave superimposed on rated load per diode	IFSM	80	A		
Typical thermal resistance per diode	(Note 1)	R _{θJC}	9	°C/W	
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range	Тѕтс	-55 to +150	°C		

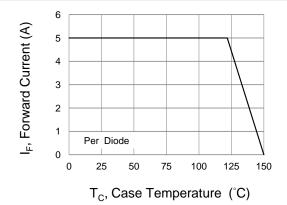
Note : 1. Device mounted on a infinite heatsink , then measured the center of the marking side.

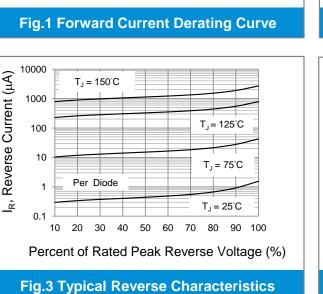


SBT10120LFCT

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	120	-	-	V
Instantaneous forward voltage per diode	V _F	$I_{F}=1A$ $I_{F}=2A$ $I_{F}=5A$ $I_{F}=1A$ $I_{F}=2A$	TJ=25°C TJ=125°C	- - - -	0.6 0.68 0.78 0.49 0.56	- - 0.83 - -	V V
Reverse current per diode		V _R =96V	TJ=25°C	-	0.7	-	μΑ
	I _R	V _R =120V	TJ=25°C TJ=125°C	-	- 0.7	20 -	μA mA





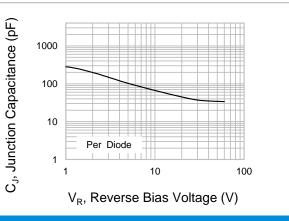
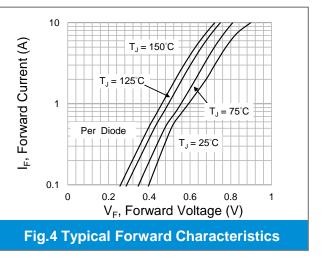


Fig.2 Typical Junction Capacitance



Reverse Current (µA)





SBT10120LFCT

Part No_packing code_Version

SBT10120LFCT_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)	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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