

SBT30100VFCT

ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE	100 Volt	CURRENT	30 Ampere
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FEATURES

- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

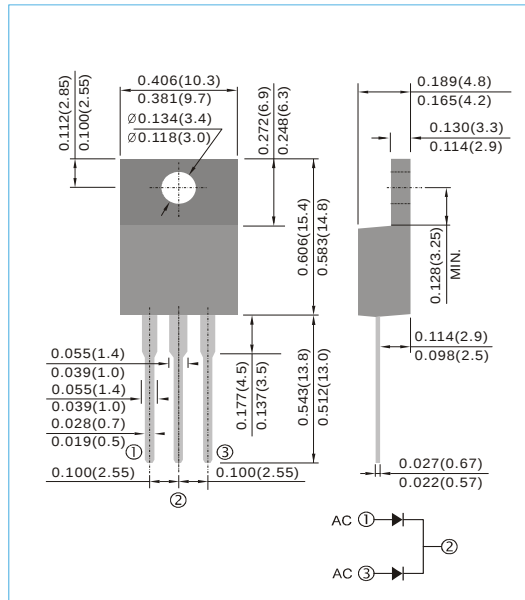
Case : ITO-220AB, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Weight : 0.056 ounces, 1.6 grams.

ITO-220AB

Unit : inch(mm)



MAXIMUM RATINGS(T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum rms voltage	V_{RMS}	70	V
Maximum dc blocking voltage	V_R	100	V
Maximum average forward rectified current	$I_{F(AV)}$	30 15	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	200	A
Typical thermal resistance per diode	$R_{\theta JC}$	5.5	°C/W
Operating junction temperature range	T_J	-55 to + 150	°C
Storage temperature range	T_{STG}	-55 to + 150	°C

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

SBT30100VFCT

ELECTRICAL CHARACTERISTICS($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V_{BR}	$I_R=0.5\text{mA}$	100	-	-	V
Instantaneous forward voltage per diode	V_F	$I_F=3\text{A}$	-	0.45	-	V
		$I_F=5\text{A}$	-	0.49	-	
		$I_F=15\text{A}$	-	0.67	0.72	
		$I_F=3\text{A}$	-	0.36	-	V
		$I_F=5\text{A}$	-	0.44	-	
Reverse current per diode	I_R	$V_R=70\text{V}$	-	5	-	μA
		$V_R=100\text{V}$	-	-	100	μA
		$T_J=25^\circ\text{C}$	-	8.5	-	mA

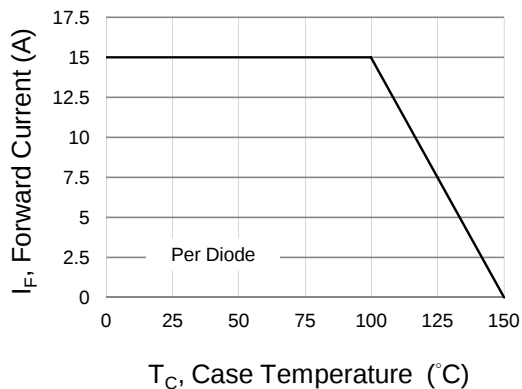


Fig.1 Forward Current Derating Curve

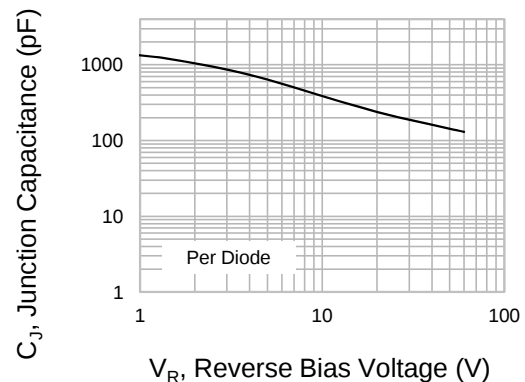


Fig.2 Typical Junction Capacitance

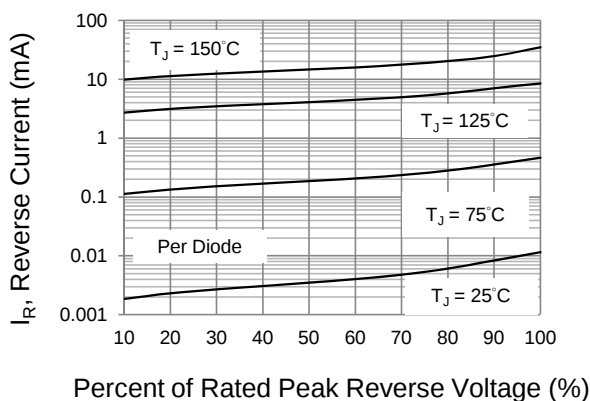


Fig.3 Typical Reverse Characteristics

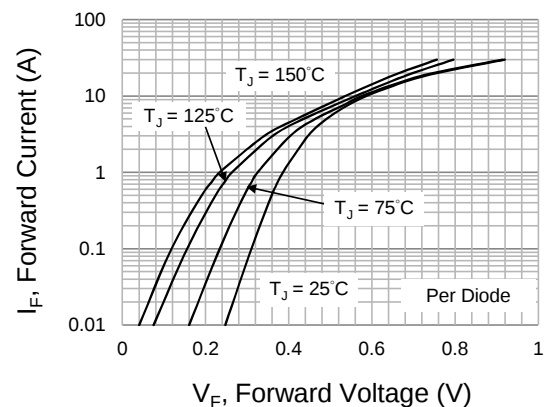


Fig.4 Typical Forward Characteristics

SBT30100VFCT

Part No_packing code_Version

SBT30100VFCT_T0_00001

SBT30100VFCT_T0_10001

For example :

RB500V-40_R2_00001



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)	B	13"	2			
Tube Packing (T/P)	T	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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