



# SBT30100VFCT

## ULTRA LOW VF SCHOTTKY RECTIFIER

**VOLTAGE** 100 Volt **CURRENT** 30 Ampere

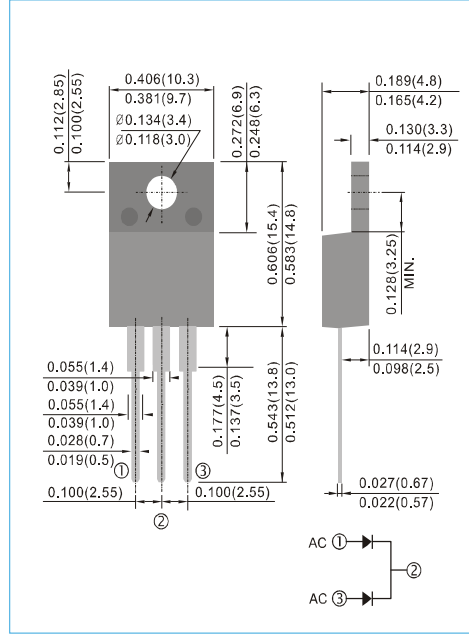
### FEATURES

- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### 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<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	100	V
Maximum rms voltage	V <sub>RMS</sub>	70	V
Maximum dc blocking voltage	V <sub>R</sub>	100	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	30 15	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	200	A
Typical thermal resistance per diode	R <sub>θJC</sub>	5.5	°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to + 150	°C
Storage temperature range	T <sub>STG</sub>	-55 to + 150	°C

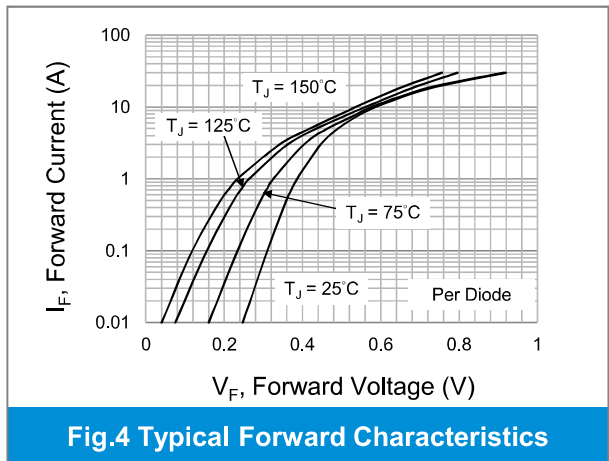
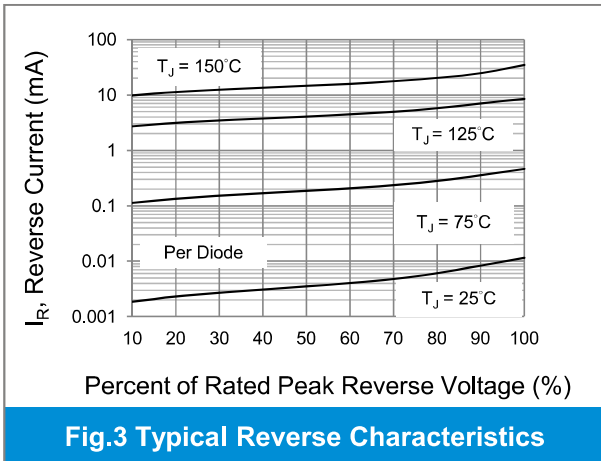
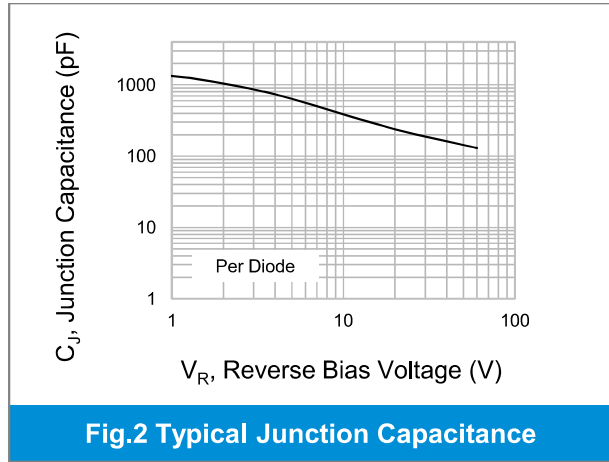
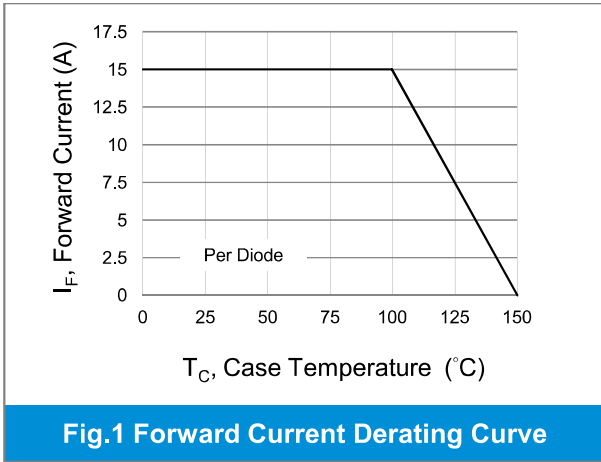
Note : 1. Device mounted on a infinite heatsink , then measured the center of the marking side.



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## ELECTRICAL CHARACTERISTICS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT				
Breakdown voltage per diode	V <sub>BR</sub>	I <sub>R</sub> =0.5mA	100	-	-	V				
Instantaneous forward voltage per diode	V <sub>F</sub>	I <sub>F</sub> =3A	-	0.45	-	V				
		I <sub>F</sub> =5A	-	0.49	-					
		I <sub>F</sub> =15A	-	0.67	0.72					
		T <sub>J</sub> =25°C	-	-	-	-				
Reverse current per diode	I <sub>R</sub>	I <sub>F</sub> =3A	-	0.36	-	V				
		I <sub>F</sub> =5A	-	0.44	-					
		V <sub>R</sub> =70V	T <sub>J</sub> =25°C	-	5	-	μA			
		V <sub>R</sub> =100V	T <sub>J</sub> =25°C	-	-	100	μA			
						T <sub>J</sub> =125°C	-	8.5	-	mA





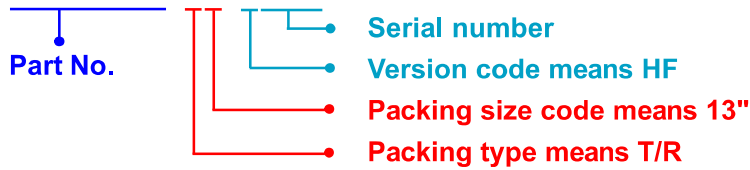
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## Part No\_packing code\_Version

SBT30100VFCT\_T0\_00001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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