# SBT10100VCT

#### **UITRA LOW VF SCHOTTKY RECTIFIER**

VOLTAGE

### CURRENT 10 Amperes

#### FEATURES

• Ultra Low forward voltage drop, low power losses

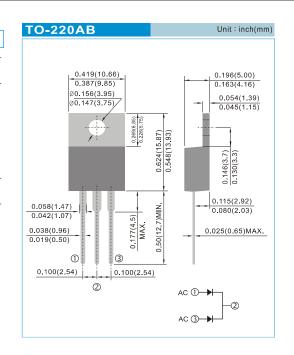
100 Volts

- High efficiency operation
- Lead free in comply with EU RoHS 2011/65/EU directives

#### MECHANICAL DATA

Case : TO-220AB, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026 Weight: 0.065 ounces, 1.859 grams.



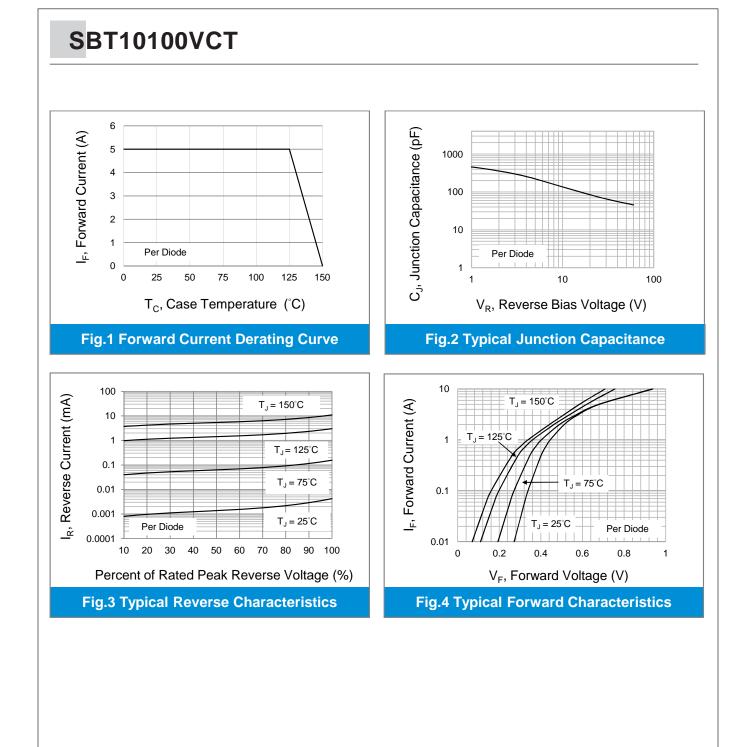
#### MAXIMUM RATINGS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT	
Maximum repetitive peak reverse voltage	Vrrm	100	V	
Maximum average forward rectified current	per diode per device	I F(AV)	5 10	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	Ігѕм	80	А
Typical thermal resistance per diode	(Note 1)	Røjc	45	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note : 1. Mounted on infinite heatsink.

#### ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

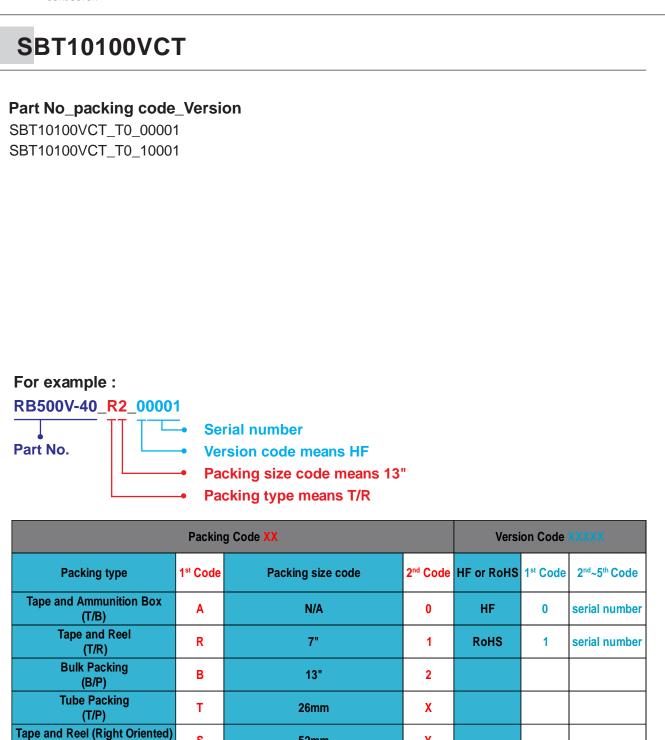
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	Vbr	I R=0.5mA		100	-	-	V
Instantaneous forward voltage per diode	VF	I F=1A I F=2A I F=5A	TJ=25°C		0.45 0.51 0.68	- - 0.74	V
		I F=1A I F=2A I F=5A	TJ=125℃	- - -	0.36 0.46 0.62	- - -	V
Reverse current per diode		Vr=70V	TJ=25°C TJ=125°C	-	1.8 1.7	-	μA mA
	IR	Vr=100V	TJ=25°C TJ=125°C	-	- 3	60 -	μA mA











52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

Υ

U

D

S

L

F

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING





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