

# SBT10100VDC

## ULTRA LOW VF SCHOTTKY RECTIFIER

10 Amperes

VOLTAGE

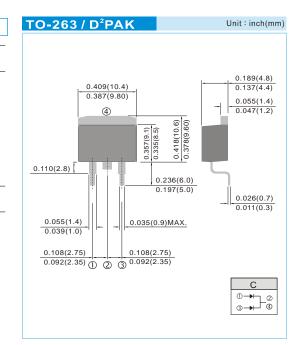
### 100 Volts CURRENT

#### FEATURES

- Ultra Low forward voltage drop, low power losses
- High efficiency operation
- · Lead free in comply with EU RoHS 2011/65/EU directives

#### **MECHANICAL DATA**

Case : TO-263/D<sup>2</sup>PAK, Plastic Terminals : Solderable per MIL-STD-750, Method 2026 Weight: 0.0514 ounces, 1.46 grams.



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

PARAMETER		SYMBOL	VALUE	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 device per diode	I F(AV)	10 5	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	I FSM	80	A
Typical junction capacitance (VR=4V, f=1MHz)		CJ	300	рF
Typical thermal resistance per diode	(Note 1)	R⊚jc	3.5	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

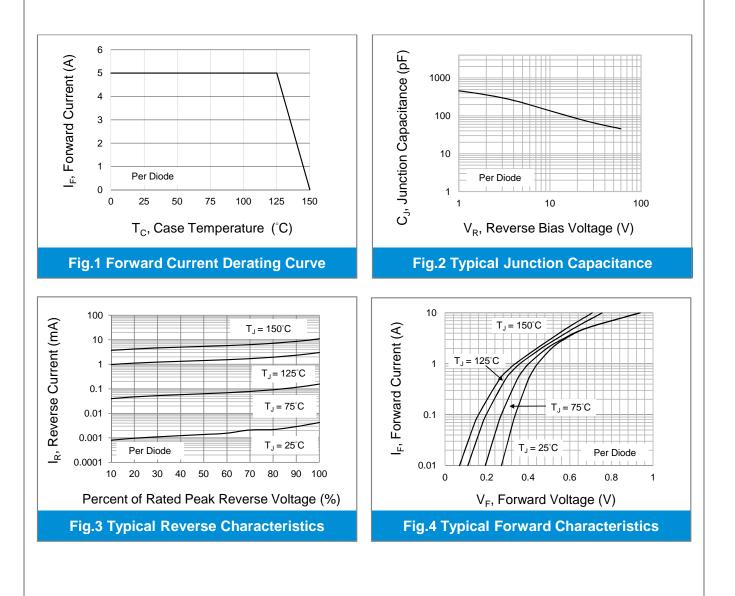
Note : 1. Mounted on infinite heatsink.



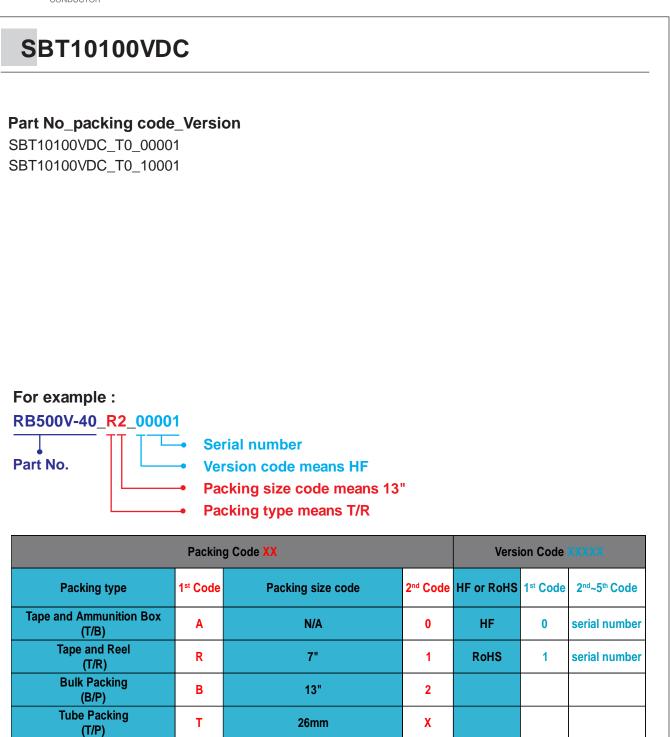
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### ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

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	IF=1A IF=2A IF=5A	TJ=25℃		0.45 0.51 -	- - 0.74	V
		I F=1A I F=2A I F=5A	TJ=125°C	- -	0.36 0.46 0.62		V
Reverse current per diode	1-	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

Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

S

L

F





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