

SBT30100VDC

100 Volt

ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE

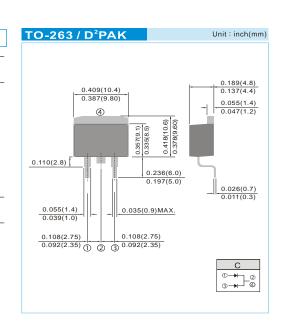
CURRENT 30 Ampere

FEATURES

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



Case : TO-263/D²PAK, Plastic Terminals : Solderable per MIL-STD-750, Method 2026 Weight : 0.0514 ounces, 1.46 grams.



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

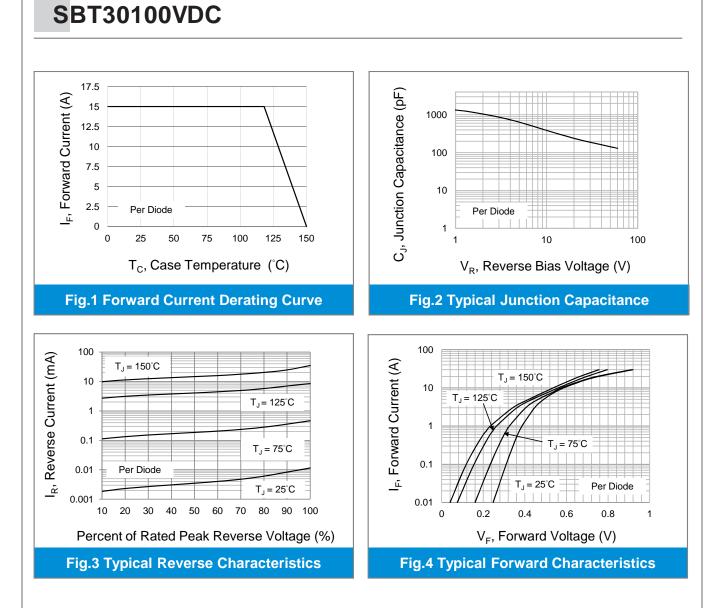
PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		Vrrm	100	V
Maximum rms voltage		Vrms	70	V
Maximum dc blocking voltage		VR	100	V
Maximum average forward rectified current	per device per diode	l f(AV)	30 15	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	IFSM	200	А
Typical thermal resistance	(Note 1)	Røjc	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.

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=3A IF=5A IF=15A	TJ=25℃	- - -	0.45 0.49 0.67	- - 0.72	V
		I	TJ=125°C	-	0.36 0.44	-	V
Reverse current per diode	l r	Vr=70V		-	5	-	μA
		Vr=100V	TJ=25°C TJ=125°C	-	- 8.5	100 -	μA mA

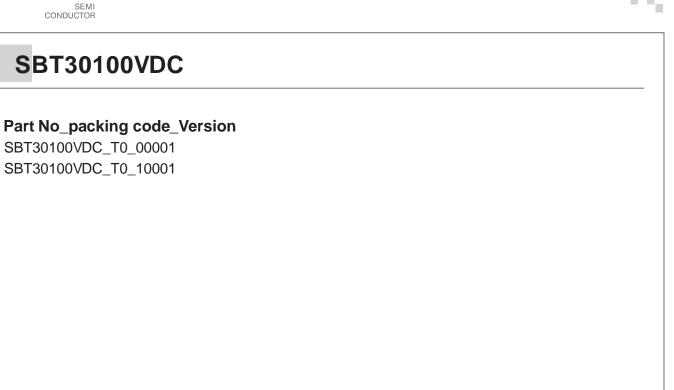
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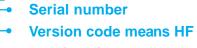




For example :

RB500V-40_R2_00001





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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