

### **ULTRA LOW VF SCHOTTKY RECTIFIER**

VOLTAGE

CURRENT

100 Volt

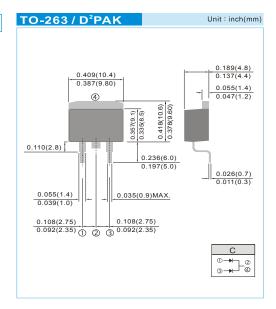
### 30 Ampere

#### **FEATURES**

- · Ultra low forward voltage drop, low power loss
- High efficiency operation
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

### **MECHANICAL DATA**

Case : TO-263/D<sup>2</sup>PAK, Plastic Terminals : Solderable per MIL-STD-750, Method 2026 Weight: 0.049 ounces, 1.38 grams.



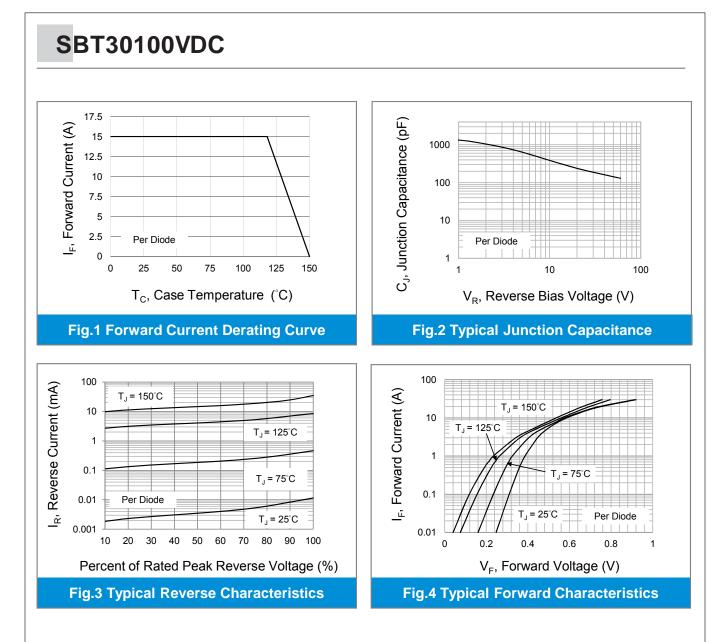
#### MAXIMUM RATINGS(TA=25°C unless otherwise noted)

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	I FSM	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 IF=3A	TJ=25℃	- - -	0.45 0.49 0.67 0.36	- - 0.72	V
		IF=5A	TJ=125°C	-	0.30	-	V
Reverse current per diode	l r	VR=70V		-	5	-	μA
		V <sub>R</sub> =100V	TJ=25°C TJ=125°C	-	- 8.5	100 -	μA mA



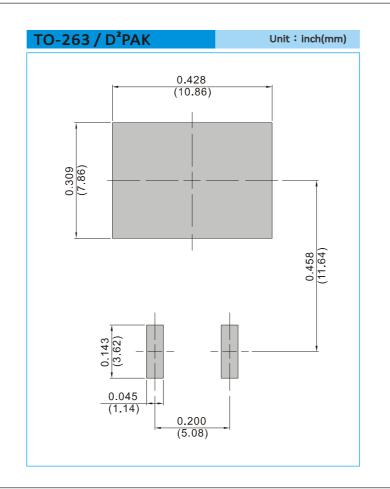






# SBT30100VDC

#### MOUNTING PAD LAYOUT

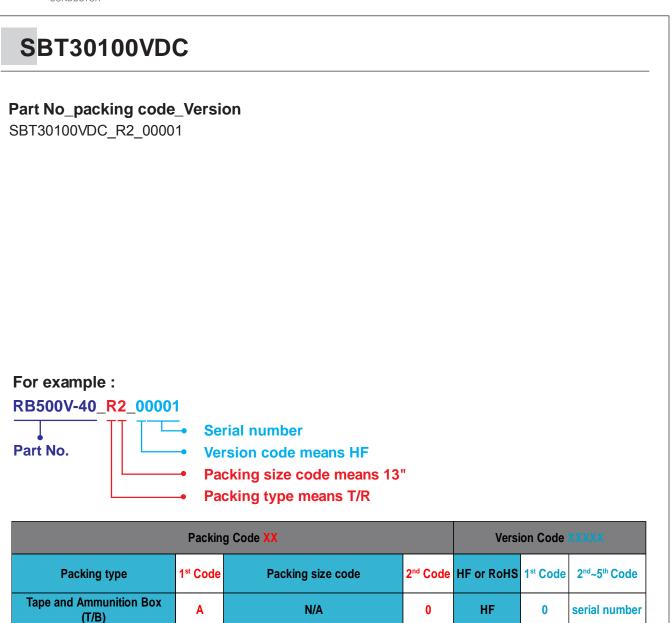


#### ORDER INFORMATION

Packing information

T/R - 0.8K per 13" plastic Reel





7"

13"

26mm

52mm

PANASERT T/B CATHODE UP

(PBCU)

PANASERT T/B CATHODE DOWN

(PBCD)

1

2

Χ

Υ

U

D

RoHS

1

serial number

Tape and Reel

(T/R) Bulk Packing

(B/P) Tube Packing

(T/P) Tape and Reel (Right Oriented)

(TRR)

Tape and Reel (Left Oriented)

(TRL)

FORMING

R

В

т

S

L

F





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