



# SBT20100VDC

## ULTRA LOW VF SCHOTTKY RECTIFIER

**VOLTAGE** 100 Volt **CURRENT** 20 Ampere

**TO-263 / D<sup>2</sup>PAK** Unit : inch(mm)

### FEATURES

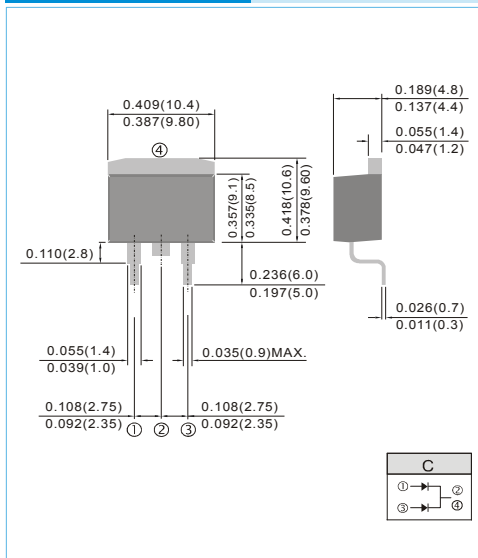
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### 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(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>	20 10	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	150	A
Typical junction capacitance (V <sub>R</sub> =4V, f=1MHz)	C <sub>J</sub>	620	pF
Typical thermal resistance per diode (Note 1)	R <sub>θJC</sub>	3.5	°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

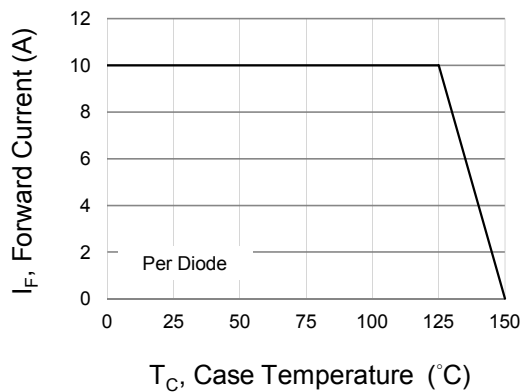
Note : 1. Mounted on infinite heatsink.



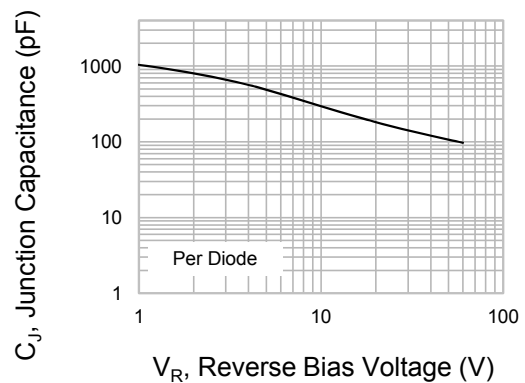
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## ELECTRICAL CHARACTERISTICS( $T_A=25^\circ\text{C}$ unless otherwise noted)

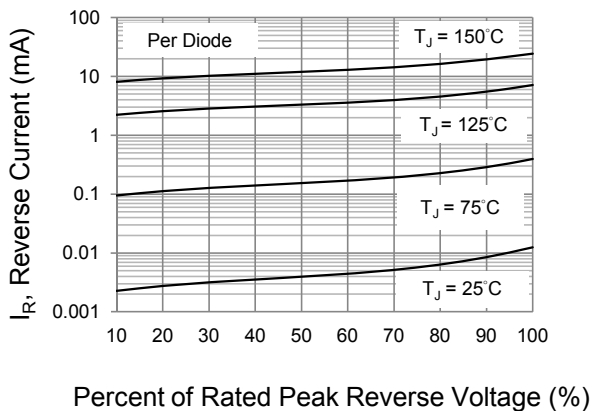
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	$V_{BR}$	$I_R=0.5\text{mA}$	100	-	-	V
Instantaneous forward voltage per diode	$V_F$	$I_F=3\text{A}$	-	0.47	-	V
		$I_F=5\text{A}$	-	0.53	-	
		$I_F=10\text{A}$	-	0.66	0.71	
		$I_F=3\text{A}$	-	0.4	-	V
		$I_F=5\text{A}$	-	0.49	-	
		$I_F=10\text{A}$	-	0.61	-	
Reverse current per diode	$I_R$	$V_R=70\text{V}$	-	5	-	$\mu\text{A}$
		$V_R=100\text{V}$	-	-	80	$\mu\text{A}$
		$T_J=25^\circ\text{C}$	-	-	-	$\mu\text{A}$
		$T_J=125^\circ\text{C}$	-	7.2	-	mA



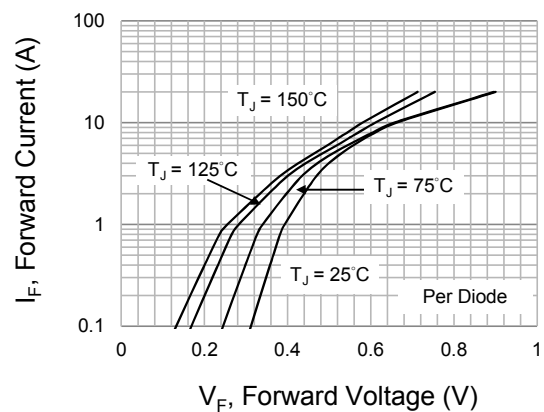
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**

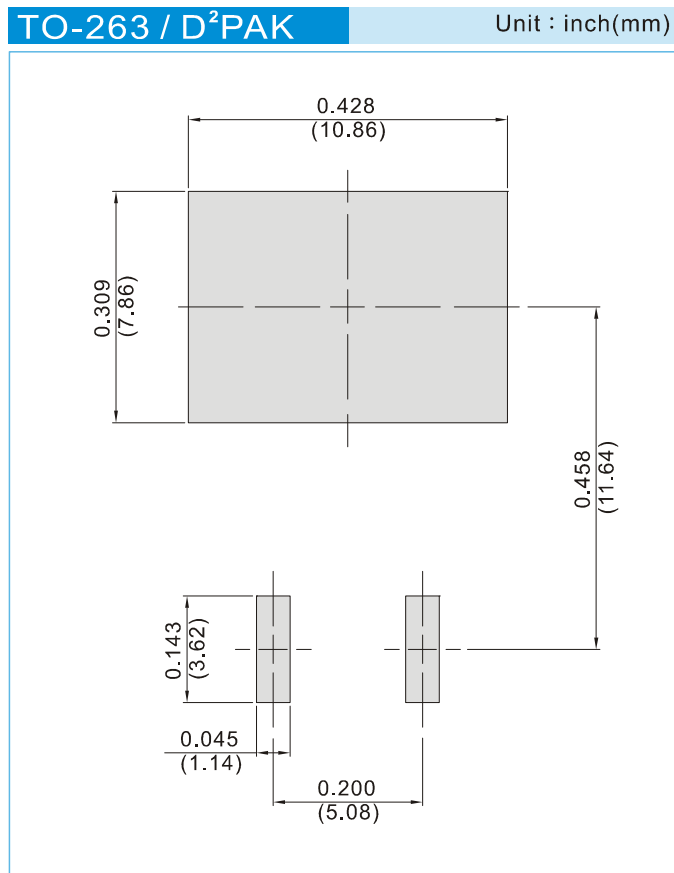


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## PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBT20100VDC_R2_00001	TO-263	800 pcs / 13" Reel	SBT20100VDC	Halogen free

## MOUNTING PAD LAYOUT





## SBT20100VDC

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