



ULTRA LOW VF SCHOTTKY RECTIFIER

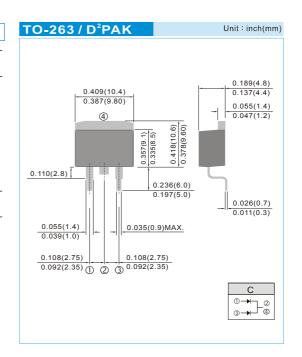
VOLTAGE 100 Volt CURRENT 10 Ampere

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/D2PAK, 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)	10 5	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	per diode	IFSM	80	А
Typical junction capacitance (VR=4V, f=1MHz)		Сл	300	pF
Typical thermal resistance per diode	(Note 1)	Rөлс	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	F=1A F=2A F=5A	TJ=25°C		0.45 0.51 -	- - 0.74	V
		F=1A F=2A F=5A	TJ=125°C		0.36 0.46 0.62	1 1 1	V
Reverse current per diode	l R	V _R =70V	TJ=25°C TJ=125°C	1 1	1.8 1.7	1 1	μA mA
		VR=100V	TJ=25°C TJ=125°C	-	- 3	60 -	μA mA





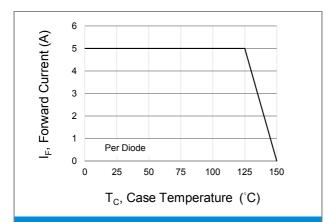


Fig.1 Forward Current Derating Curve

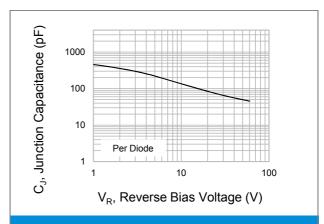


Fig.2 Typical Junction Capacitance

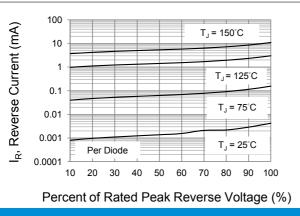


Fig.3 Typical Reverse Characteristics

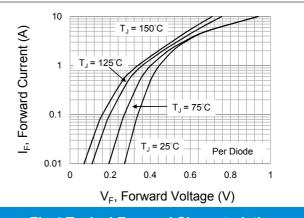


Fig.4 Typical Forward Characteristics

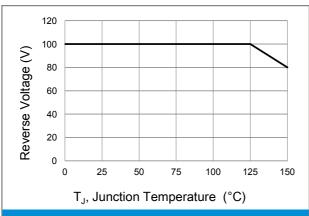


Fig.5 Operating Temperature Derating Curve

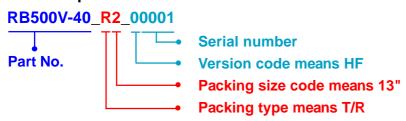




Part No_packing code_Version

SBT10100VDC_R2_00001

For example:



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)	Α	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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