



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 100 Volt CURRENT 30 Ampere

FEATURES

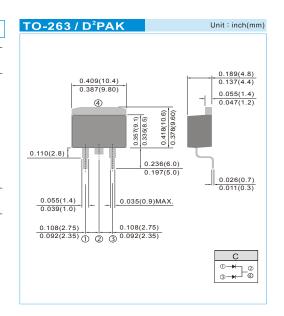
- · Ultra low forward voltage drop, low power loss
- High efficiency operation
- · Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

Case: TO-263/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	٧
Maximum average forward rectified current	per device per diode	I F(AV)	30 15	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	per diode	IFSM	200	А
Typical thermal resistance	(Note 1)	R⊚JC	3.5	°C/W
Operating junction temperature range		Tu	-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	V _{BR}	I R=0.5mA		100	-	-	V
Instantaneous forward voltage per diode	VF	IF=3A IF=5A IF=15A IF=3A	T _J =25°C	- - -	0.45 0.49 0.67 0.36	- - 0.72 -	V
Reverse current per diode	l R	I F=5A VR=70V		-	0.44 5	-	μА
		V _R =100V	TJ=25°C TJ=125°C	-	- 8.5	100 -	μA mA





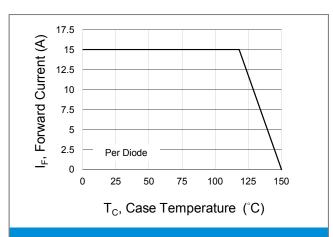


Fig.1 Forward Current Derating Curve

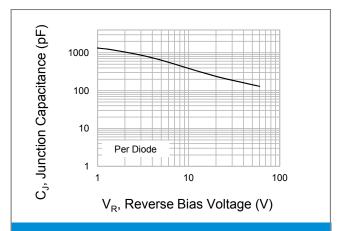


Fig.2 Typical Junction Capacitance

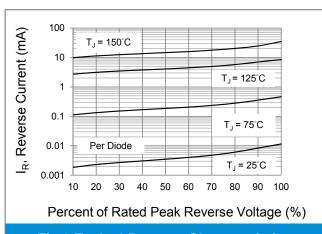


Fig.3 Typical Reverse Characteristics

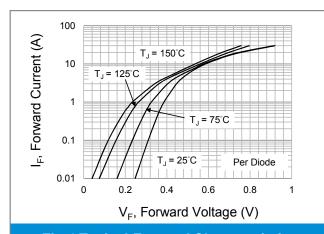
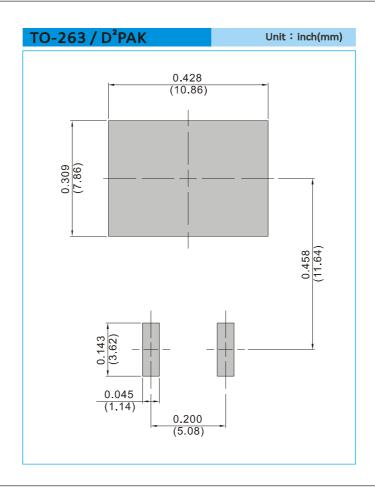


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 0.8K per 13" plastic Reel





Part No_packing code_Version

SBT30100VDC_R2_00001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF 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)	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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