July	17 2013-RF	V 00

ULTRA LOW VF SCHOTTKY RECTIFIER

CURRENT

12 Amperes

VOLTAGE

FEATURES

· Ideal for automated placement

SVT12100VB

· Ultra Low forward voltage drop, low power losses

100 Volts

- · High efficiency operation
- · Low thermal resistance
- Ultra thin profile package for space constrained utilization
- · Package suitable for automated handling
- · Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

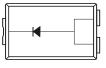
MECHANICAL DATA

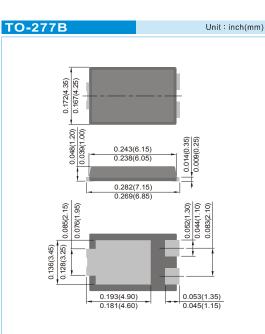
Case : TO-277B, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Weight : 0.0038 ounces, 0.1088 grams

Marking : SVT12100VB





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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage			100	V
Maximum RMS Voltage			70	V
Maximum DC Blocking Voltage			100	V
Maximum Average Rectified Output Current			12	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		IFSM	200	А
Typical Junction Capacitance (VR=4V, f=1MHz)		Сл	1200	pF
Typical Thermal Resistance	(Note 1) (Note 2)	Rojc Roja	3 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range		Tj,Tstg	-55 to + 150	°C

NOTES :

1.Mounted on an FR4 PCB, single-sided copper, with 10cm*10cm*0.5mm copper pad area 2.Mounted on an FR4 PCB, single-sided copper, mini pad.

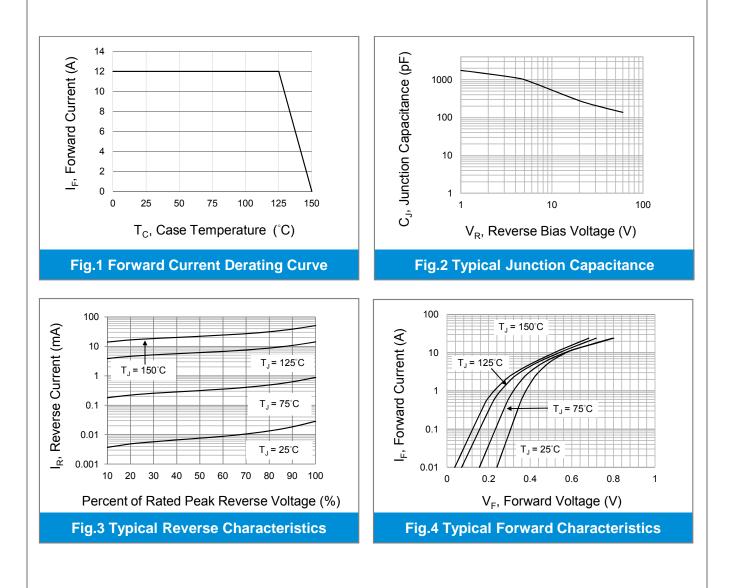




SVT12100VB

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

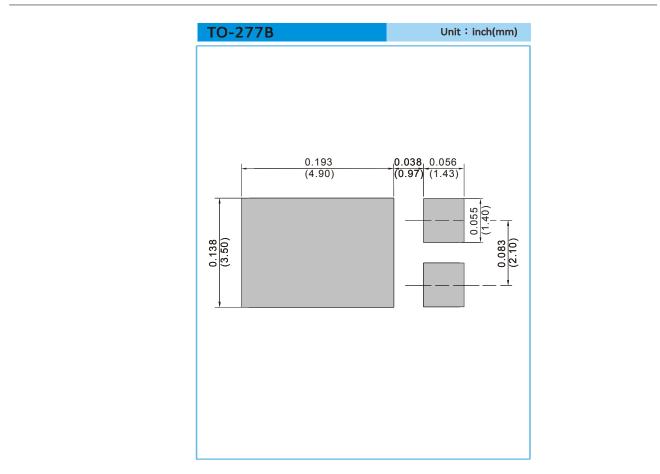
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	Vbr	I R=0.5mA		100	-	-	V
Instantanoous forward voltago	VF	F=1A F=5A F=12A	Tj=25°C	- -	0.38 0.48 0.61	- - 0.67	V
Instantaneous forward voltage		F=1A F=5A F=12A	TJ=125°C		0.26 0.42 0.57	- - -	V
Develope evenet	١ĸ	VR=70V	TJ=25°C TJ=125°C	-	10.6 7.5	-	μA mA
Reverse current		VR=100V	TJ=25°C TJ=125°C	-	- 14	100 -	μA mA





SVT12100VB

MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel

e a





SVT12100VB

Part No_packing code_Version

SVT12100VB_R2_00001

For example :

RB500V-40_R2_00001



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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