PAN

SVT12100V

SEM

ULTRA LOW VF SCHOTTKY RECTIFIER

CURRENT

12 Amperes

VOLTAGE

FEATURES

- Ideal for automated placement
- 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 comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

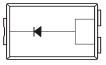
MECHANICAL DATA

Case : TO-277, Plastic

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

Weight: 0.0037 ounces, 0.1073 grams

Marking : SVT12100V

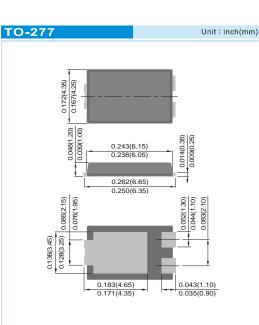


MAXIMUM RATINGS(TA=25°C unless otherwise noted)

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			200	A
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.

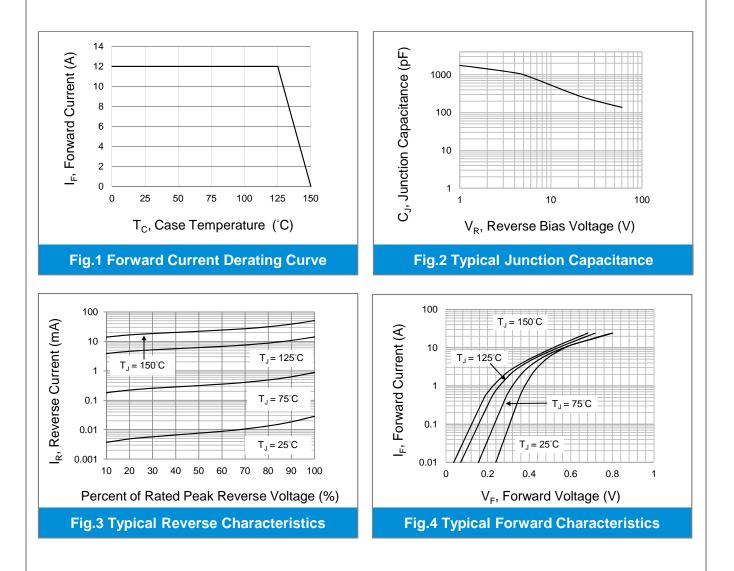




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ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

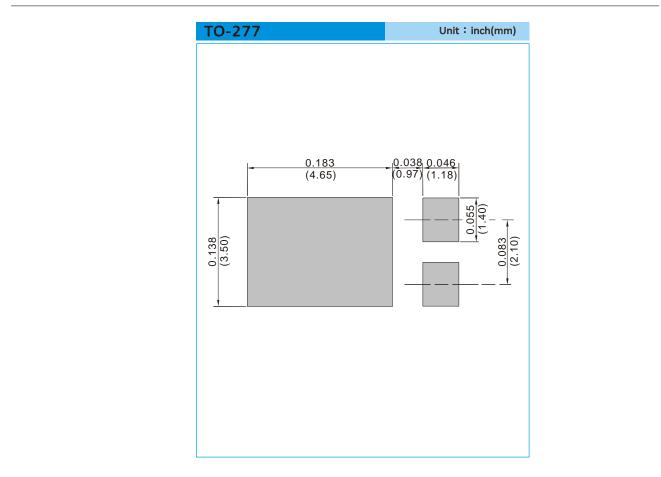
SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Vbr	I R=0.5mA		100	-	-	V
VF	F=1A F=5A F=12A F=1A F=5A	TJ=25°C TJ=125°C		0.38 0.48 0.61 0.26 0.42	- - 0.67 -	V
	I F=12A	TJ=25°C	-	0.57	-	μA
l r		TJ=125°C TJ=25°C	-	7.5 -	- 100	mA μA mA
	VF	VF	$V_{F} = \frac{\begin{vmatrix} I & F = 1A \\ I & F = 5A \\ I & F = 12A \end{vmatrix}}{I & F = 12A} \\ T_{J} = 25^{\circ}C \\ I & T_{J} = 125^{\circ}C \\ I & F = 12A \end{vmatrix}} \\ V_{R} = 70V \\ T_{J} = 25^{\circ}C \\ T_{J} = 125^{\circ}C \\ T_{J}$	$V_{F} = \begin{bmatrix} I F = 1A & & & - & & - & & & - & & & & & & & & $	$V_{F} = \begin{bmatrix} I F=1A & & - & 0.38 \\ I F=5A & T_{J}=25^{\circ}C & - & 0.48 \\ I F=12A & & - & 0.61 \\ I F=1A & & - & 0.26 \\ I F=5A & T_{J}=125^{\circ}C & - & 0.42 \\ I F=12A & & - & 0.57 \\ V_{R}=70V & T_{J}=25^{\circ}C & - & 10.6 \\ T_{J}=125^{\circ}C & - & 7.5 \\ V_{R}=100V & T_{J}=25^{\circ}C & - & - \\ \end{bmatrix}$	$V_{F} \begin{array}{c ccccccccccccccccccccccccccccccccccc$





SVT12100V

MOUNTING PAD LAYOUT

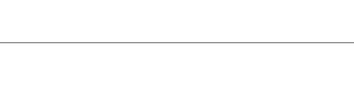


ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SVT12100V_R2_00001

SVT12100V

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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