



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 100 Volt CURRENT 12 Ampere

FEATURES

- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- · High efficiency operation
- · Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Acquire quality system certificate: TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

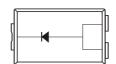
MECHANICAL DATA

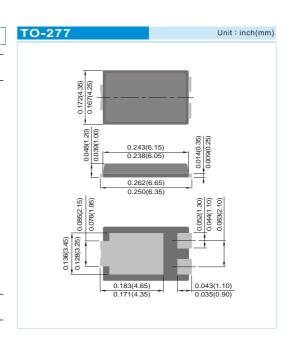
· Case: TO-277, Plastic

• 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	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	V
Maximum RMS Voltage	VRMS	70	V
Maximum DC Blocking Voltage	VR	100	V
Maximum Average Rectified Output Current	l F(AV)	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)	CJ	1200	pF
Typical Thermal Resistance (Not (Not	,	3 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range		-55 to + 150	°C

NOTES:

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





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA		100	-	-	V
Instantaneous forward voltage	VF	F=1A F=5A F=12A	TJ=25°C	- - -	0.38 0.48 0.61	- - 0.67	V
			T _J =125°C	- - -	0.26 0.42 0.57	- - -	٧
Reverse current	La	VR=70V	TJ=25°C TJ=125°C	-	10.6 7.5		μA mA
	IR	VR=100V	TJ=25°C TJ=125°C	-	- 14	100 -	μA mA





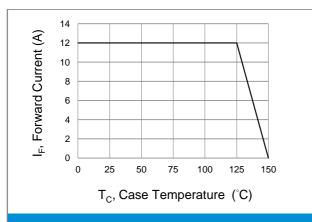


Fig.1 Forward Current Derating Curve

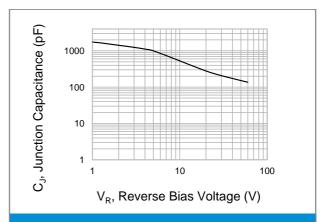


Fig.2 Typical Junction Capacitance

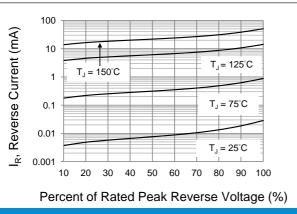


Fig.3 Typical Reverse Characteristics

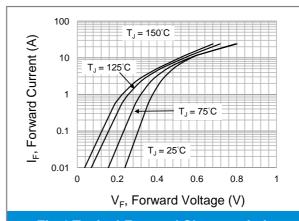


Fig.4 Typical Forward Characteristics

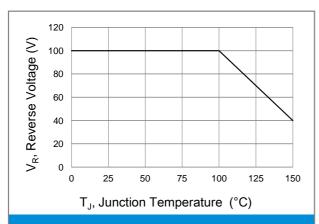
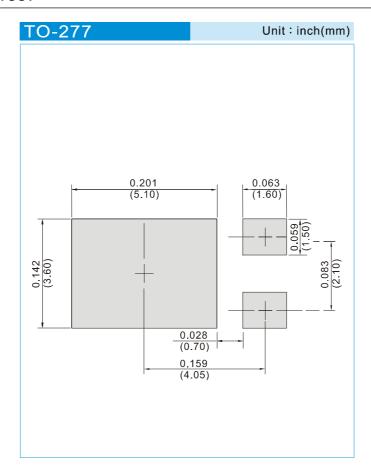


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel

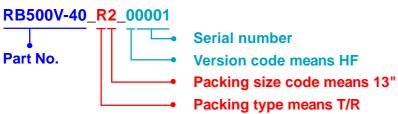




Part No_packing code_Version

SVT12100V-AU_R2_000A1

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	х			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Υ			
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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