

SVM1550U

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 50 Volt **CURRENT** 15 Ampere

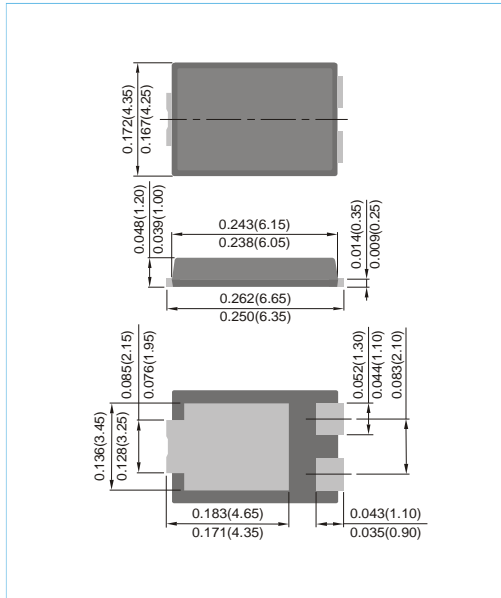
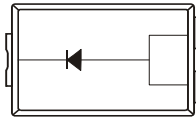
TO-277 Unit : inch(mm)

FEATURES

- Ideal for automated placement
- Low forward voltage drop, low power losses
- 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-277, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight : 0.0037 ounces, 0.1073 grams
- Marking : SVM1550U



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	V
Maximum RMS Voltage	V _{RMS}	35	V
Maximum DC Blocking Voltage	V _R	50	V
Maximum Average Rectified Output Current	I _{F(AV)}	15	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	275	A
Typical Thermal Resistance	R _{θJC} (Note 1) R _{θJA} (Note 2)	6 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range	T _J ,T _{STG}	-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)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I _R =0.5mA T _A =25°C	50	-	-	V
Instantaneous forward voltage	V _F	I _F =1A T _A =25°C	-	0.28	-	V
		I _F =2A T _A =25°C	-	0.31	-	
		I _F =15A T _A =25°C	-	0.44	0.49	
		I _F =1A T _A =125°C	-	0.18	-	V
I _F =2A T _A =125°C	-	0.21	-			
I _F =15A T _A =125°C	-	0.4	-			
Reverse current	I _R	V _R =40V T _A =25°C	-	65	-	μA
		V _R =40V T _A =125°C	-	15	-	mA
		V _R =50V T _A =25°C	-	-	320	μA
		V _R =50V T _A =125°C	-	20	-	mA

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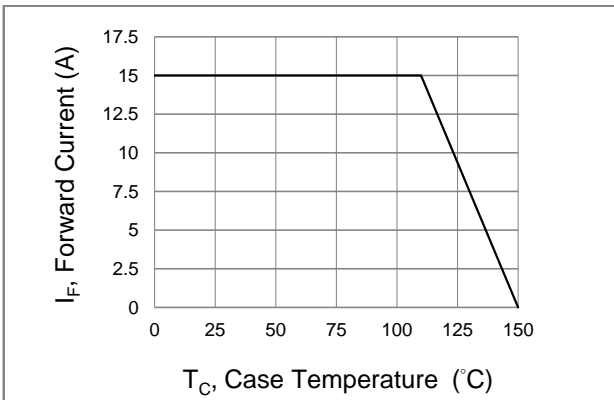


Fig.1 Forward Current Derating Curve

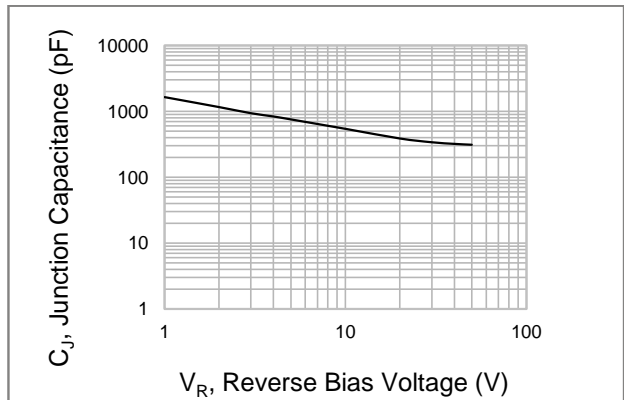


Fig.2 Typical Junction Capacitance

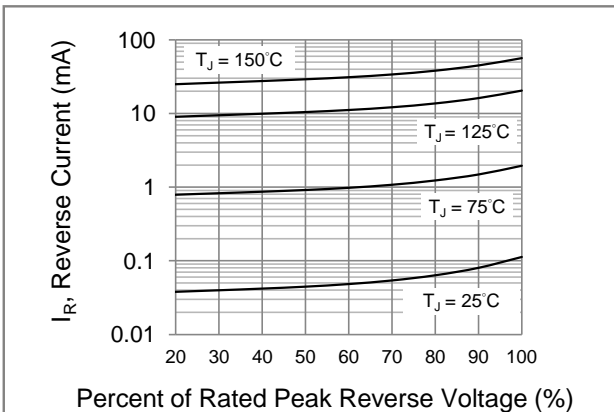


Fig.3 Typical Reverse Characteristics

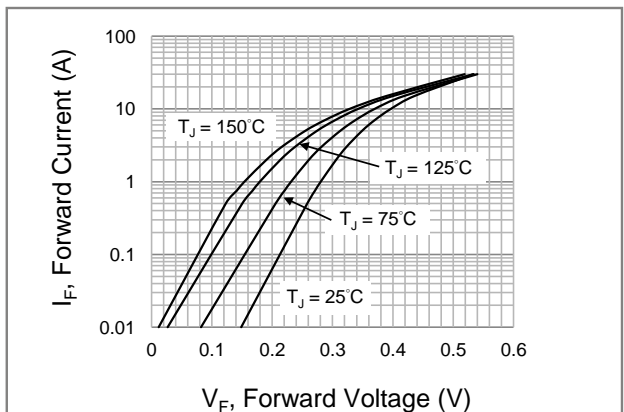


Fig.4 Typical Forward Characteristics

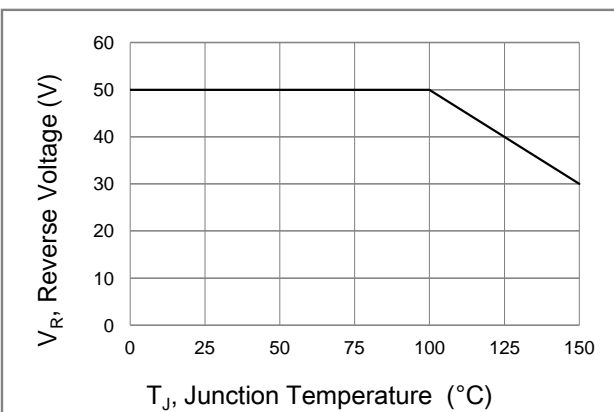
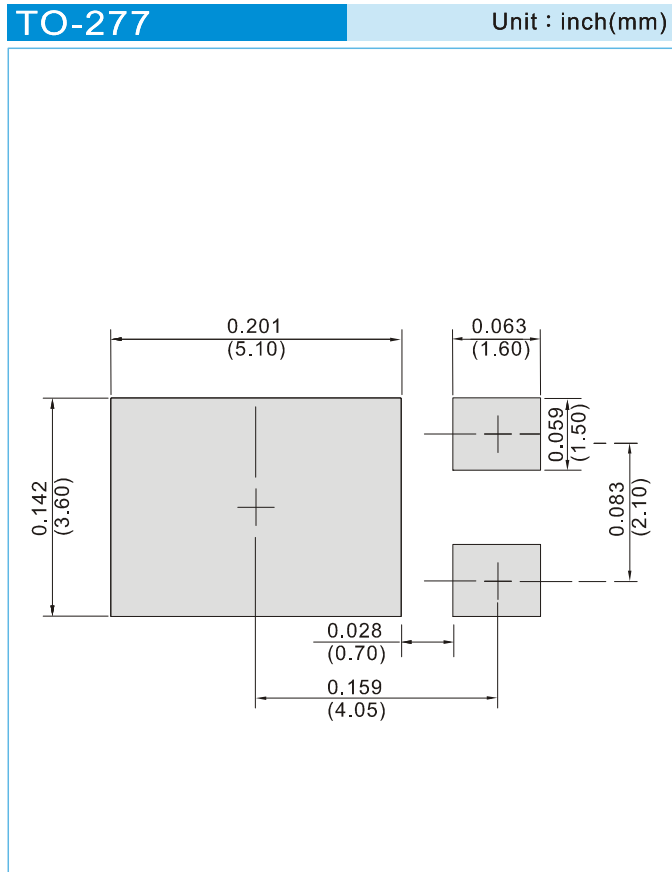


Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 5K per 13" plastic Reel

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