

SVM1550UA

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 50 Volt **CURRENT** 15 Ampere

FEATURES

- Ideal for automated placement
- 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
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

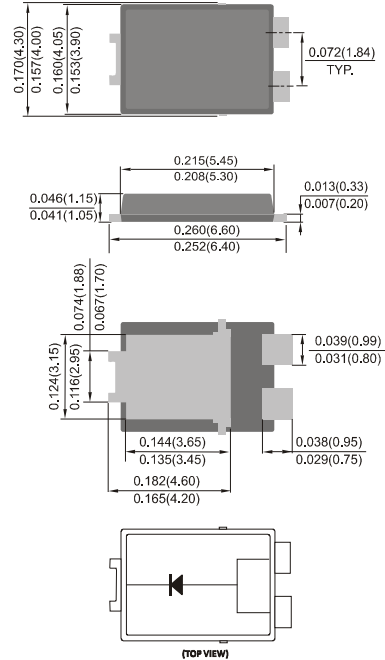
MECHANICAL DATA

Case : TO-277A, Plastic

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

Weight : 0.003 ounces, 0.0855 grams

TO-277A Unit : inch(mm)



MAXIMUM RATINGS($T_A=25^{\circ}\text{C}$ 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 (Note 1) (Note 2)	$R_{\theta JC}$ $R_{\theta JA}$	6 110	$^{\circ}\text{C/W}$
Operating Junction Temperature Range And Storage Temperature Range	T_J, T_{STG}	-55 to + 150	$^{\circ}\text{C}$

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.

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ELECTRICAL CHARACTERISTICS (T_A=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
Reverse current	I _R	I _F =2A T _A =125°C	-	0.21	-	
		I _F =15A T _A =125°C	-	0.4	-	
		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

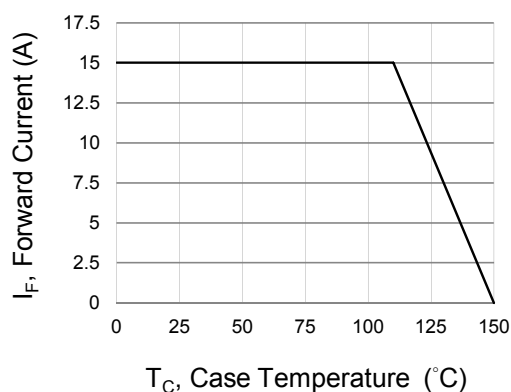


Fig.1 Forward Current Derating Curve

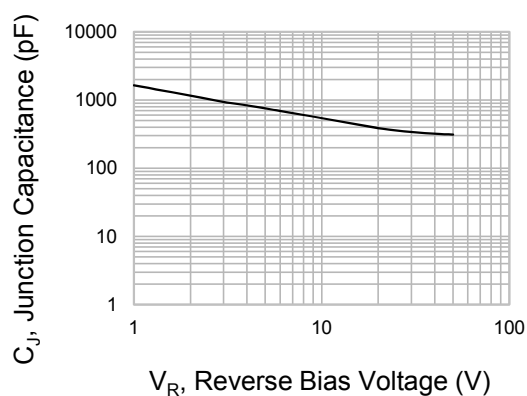


Fig.2 Typical Junction Capacitance

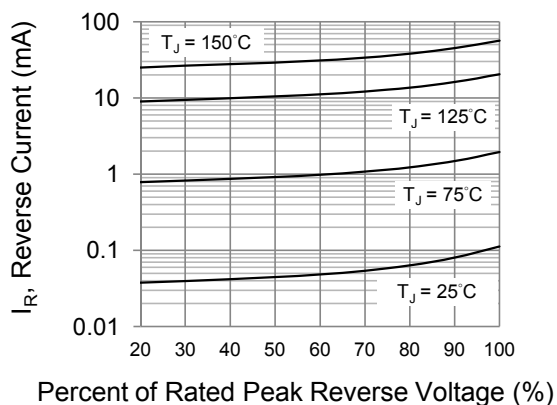


Fig.3 Typical Reverse Characteristics

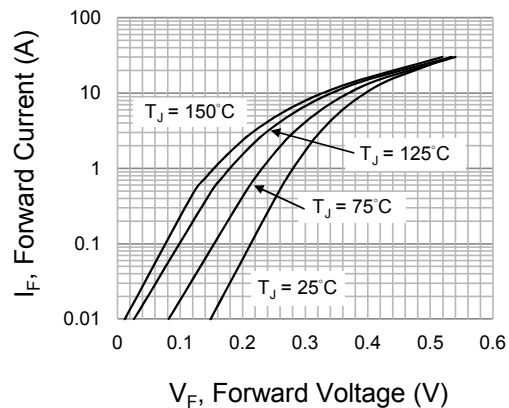


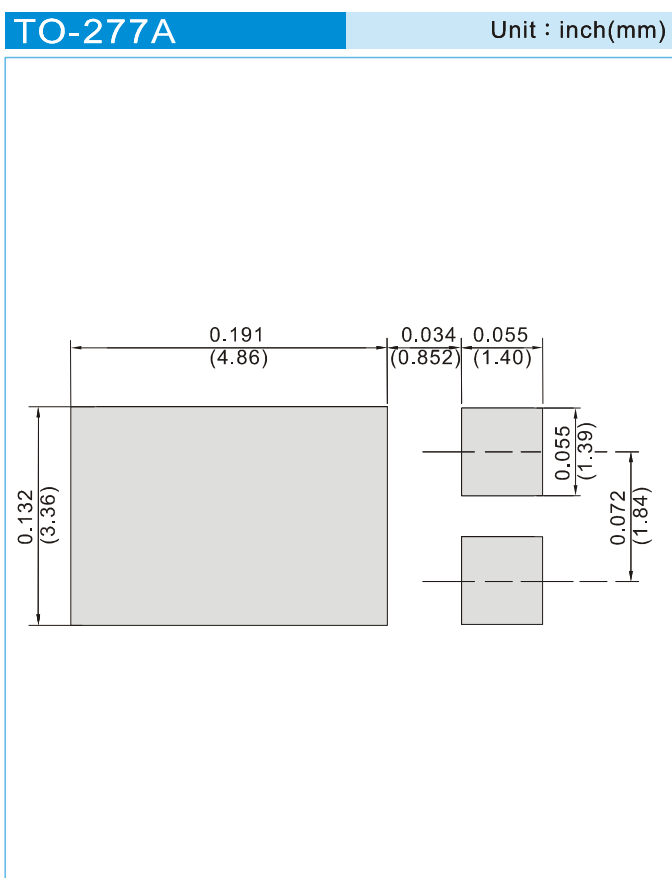
Fig.4 Typical Forward Characteristics

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PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
SVM1550UA_R2_00001	TO-277A	5K pcs / 13" reel	SVM1550U	Halogen free

MOUNTING PAD LAYOUT





SVM1550UA

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