



SVM1550UA

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 50 Volt **CURRENT** 15 Ampere

FEATURES

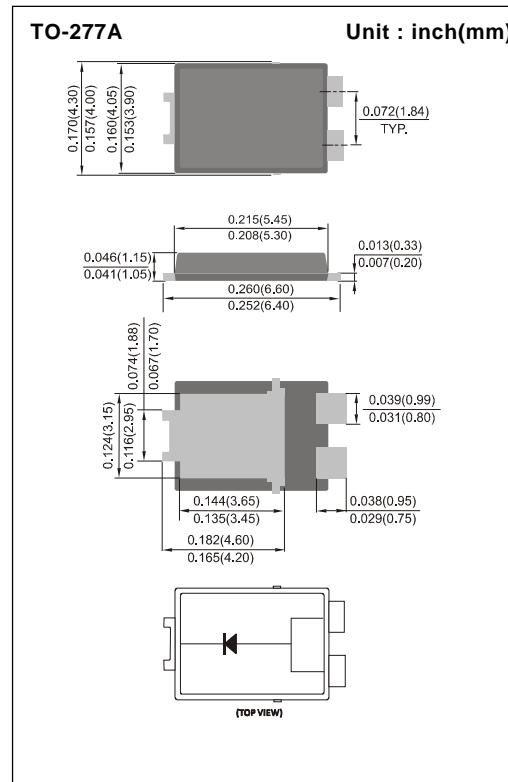
- Ideal for automated placement
- Low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green 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



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 (Note 1) (Note 2)	R _{θJC} R _{θJA}	6 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range	T _J , T _{STG}	-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.



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ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V_{BR}	$I_R=0.5\text{mA}$ $T_A=25^\circ\text{C}$	50	-	-	V
Instantaneous forward voltage	V_F	$I_F=1\text{A}$ $T_A=25^\circ\text{C}$	-	0.28	-	V
		$I_F=2\text{A}$ $T_A=25^\circ\text{C}$	-	0.31	-	V
		$I_F=15\text{A}$ $T_A=25^\circ\text{C}$	-	0.44	0.49	V
	V_F	$I_F=1\text{A}$ $T_A=125^\circ\text{C}$	-	0.18	-	V
		$I_F=2\text{A}$ $T_A=125^\circ\text{C}$	-	0.21	-	V
		$I_F=15\text{A}$ $T_A=125^\circ\text{C}$	-	0.4	-	V
Reverse current	I_R	$V_R=40\text{V}$ $T_A=25^\circ\text{C}$	-	65	-	μA
		$V_R=50\text{V}$ $T_A=125^\circ\text{C}$	-	15	-	mA
			-	-	320	μA
			-	20	-	mA

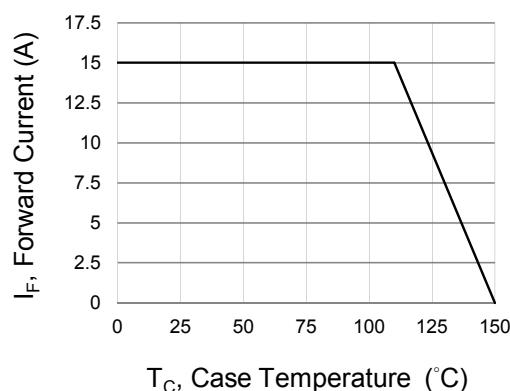


Fig.1 Forward Current Derating Curve

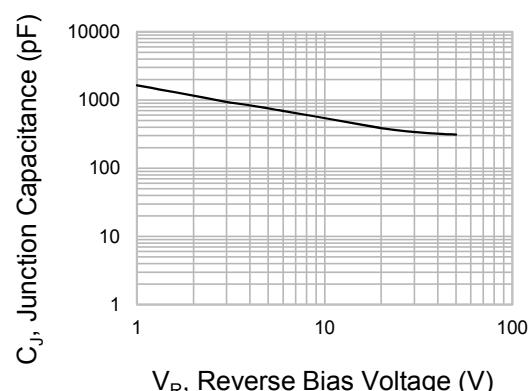


Fig.2 Typical Junction Capacitance

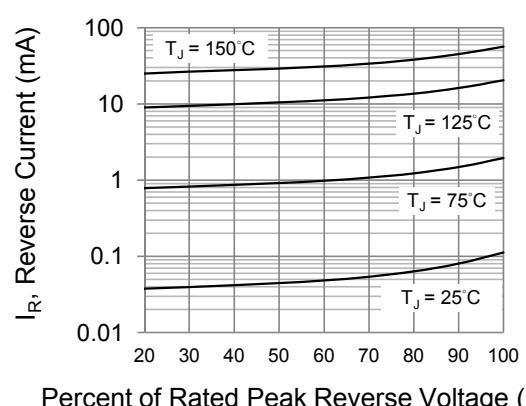


Fig.3 Typical Reverse Characteristics

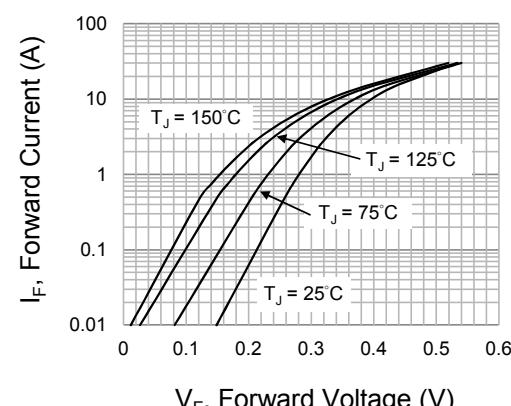


Fig.4 Typical Forward Characteristics

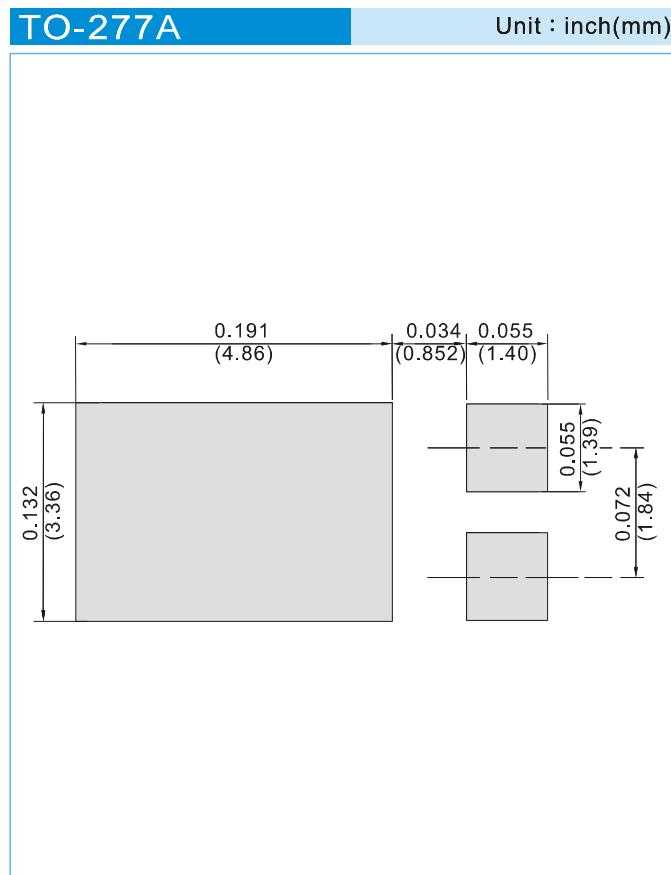


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PART NO PACKING CODE VERSION

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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