

Low V_F Schottky Rectifier

VOLTAGE 60 Volt CURRENT 10 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 2.0
- Green molding compound as per IEC 61249 standard

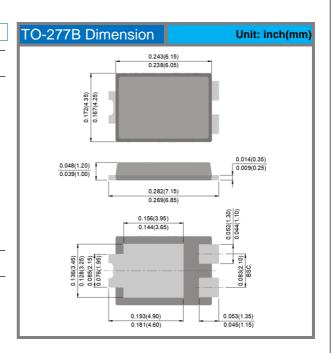
MECHANICAL DATA

Case: TO-277B, Plastic

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

Approx. Weight: 0.0935 grams





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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	60	V
Maximum RMS Voltage			42	V
Maximum DC Blocking Voltage		VR	60	V
Maximum Average Rectified Output Current		l F(AV)	10	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load			250	Α
Typical Thermal Resistance	(Note 1) (Note 2)	RθJC RθJA	11 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range		Тл,Тѕтс	-55 to + 150	°С

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.
- 2. Mounted on a FR4 PCB, single-sided copper, mini pad.



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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	Ta=25°C	60	-	-	V
Instantaneous forward voltage	VF	IF=3A IF=5A IF=10A	Ta=25°C	-	0.36 0.4 0.48	- - 0.52	V
		IF=3A IF=5A IF=10A	Ta=125°C		0.48 0.29 0.35 0.47		V
Reverse current IR	1-	V _R =42V	Ta=25°C	-	30	-	μА
	I R	VR=60V	Ta=25°C Ta=125°C	-	- 15	220 -	μA mA

December 4,2025 SVM1060UB-REV.02 PAGE . 2



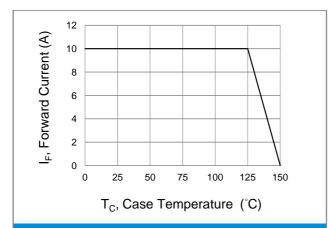


Fig.1 Forward Current Derating Curve

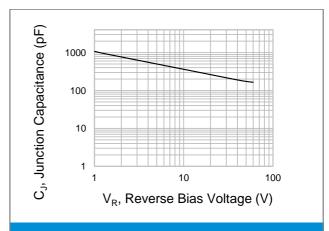


Fig.2 Typical Junction Capacitance

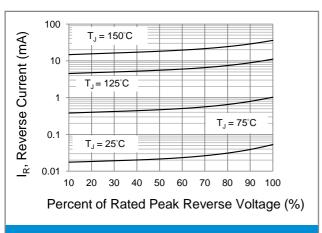


Fig.3 Typical Reverse Characteristics

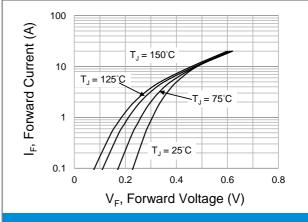


Fig.4 Typical Forward Characteristics

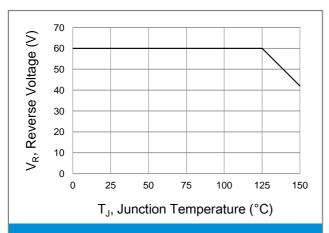


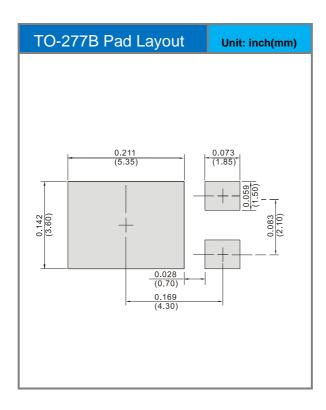
Fig.5 Operating Temperature Derating Curve



Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SVM1060UB	TO-277B	5K pcs / 13" reel	SVM1060UB

Mounting Pad Layout



December 4,2025 SVM1060UB-REV.02 PAGE . 4



Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document follow PCN procedure. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

December 4,2025 SVM1060UB-REV.02 PAGE . 5