March 25,2016-REV.02

0	\		\mathbf{n}		10	•

CONDUCTO

SVM1045V2B

LOW VF SCHOTTKY RECTIFIER 45 Volt

VOLTAGE

PA

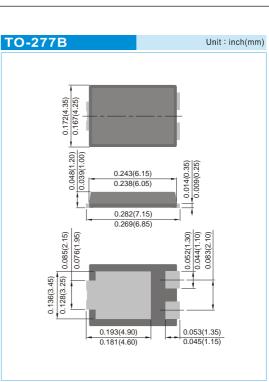
FEATURES

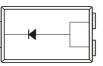
- · Ideal for automated placement
- · Low forward voltage drop, low power loss
- · High efficiency Operation
- · Low thermal resistance
- · Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directive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

CURRENT

MECHANICAL DATA

- Case : TO-277B, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight: 0.0038 ounces, 0.1088 grams
- Marking:SVM1045V2B





10 Ampere

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

PARAMETER	SYMBOL	VALUE	UNIT	
Maximum Recurrent Peak Reverse Voltage		Vrrm	45	V
Maximum RMS Voltage		Vrms	32	V
Maximum DC Blocking Voltage		Vr	45	V
Maximum Average Rectified Output Current		l f(AV)	10	A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load		I FSM	275	А
Typical Junction capacitance	Vr=4V,1MHz	C	860	рF
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Roja Rojc	110 13	°C/W
Operating junction temperature range and Storage tempera	TJ,TSTG	-55 to + 150	°C	

NOTES:

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



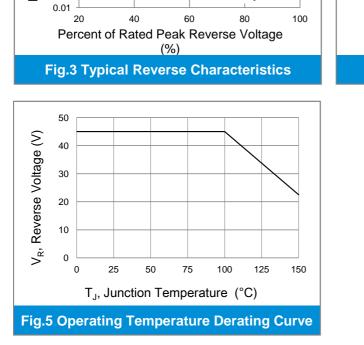


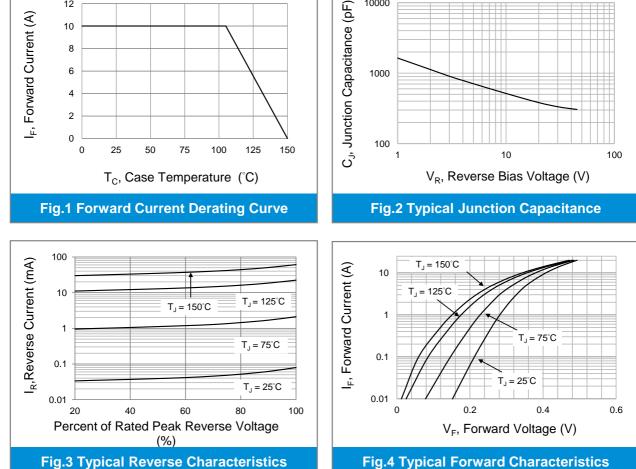
SVM1045V2B

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	45	-	-	V
Instantaneous forward voltage	VF	I F=1A I F=5A I F=10A I F=1A	Ta=25°C	- -	0.28 0.36 0.41 0.18	- - 0.44	V
		IF=TA IF=5A IF=10A	Ta=125°C	-	0.18 0.28 0.36	-	V
Bayaraa ayrrant	Ir	Vr=36V	Ta=25°C	-	70	-	μΑ
Reverse current		Vr=45V	TA=25°C TA=125°C	-	- 35	220 -	μA mA







10000

1000

SVM1045V2B

12

10 8 6

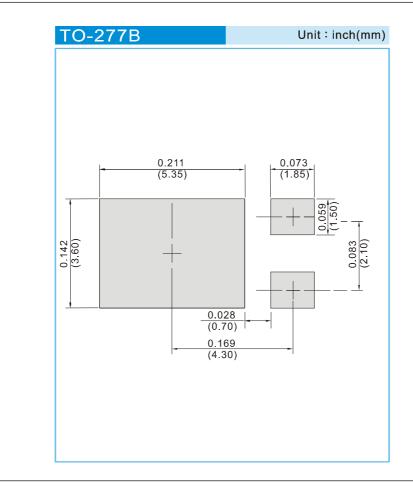
4





SVM1045V2B



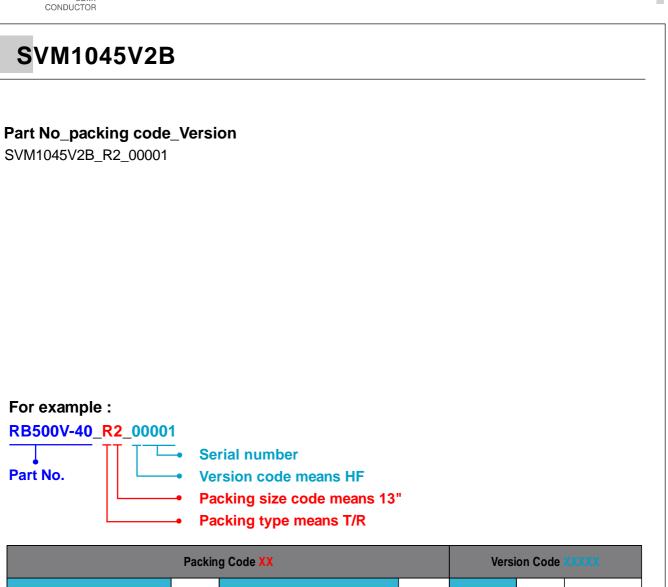


ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





					Version Code AAAAA			
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	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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 anytime without notification. 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.