March 25,2016-REV.02

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CONDUCTO

# SVM1045V2B

# LOW VF SCHOTTKY RECTIFIER 45 Volt

# VOLTAGE

PA

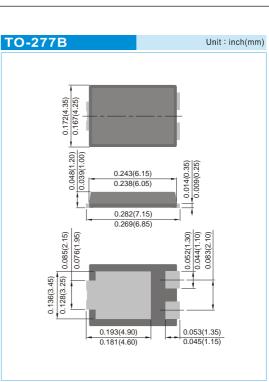
## **FEATURES**

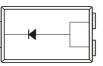
- · Ideal for automated placement
- · Low forward voltage drop, low power loss
- · High efficiency Operation
- · Low thermal resistance
- · Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directive
- 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 100cm<sup>2</sup> copper pad area.
- 2.Mounted on an FR4 PCB, single-sided copper, mini pad.



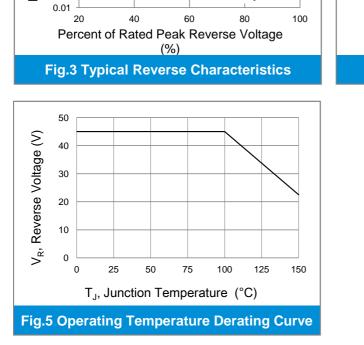


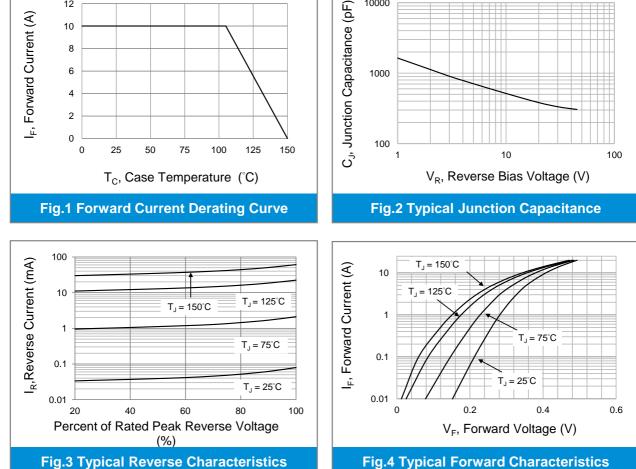
SVM1045V2B

### 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

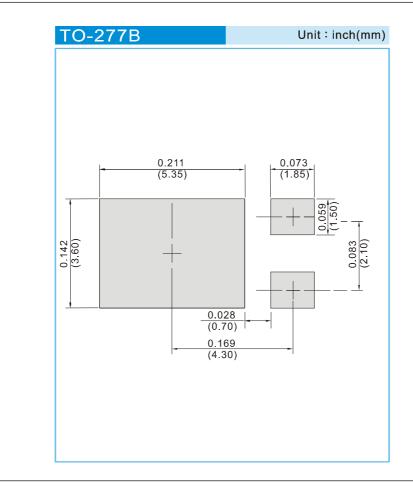
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# SVM1045V2B



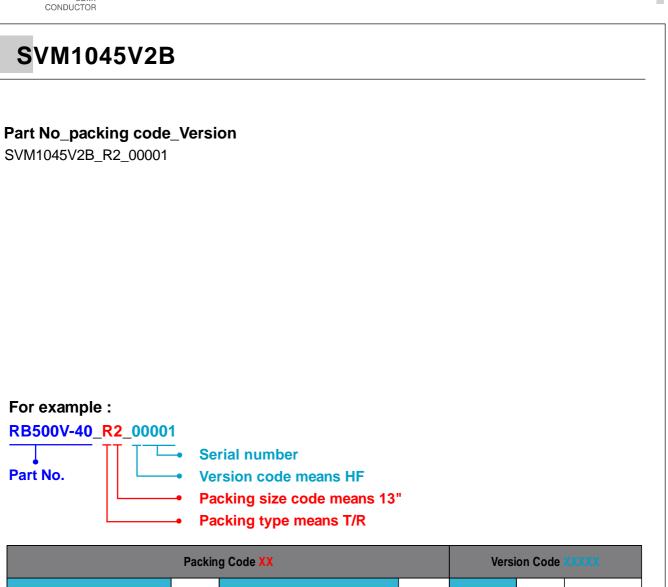


### **ORDER INFORMATION**

Packing information

T/R - 5K per 13" plastic Reel





					Version Code AAAAA			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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					





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