



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE

10 Ampere

FEATURES

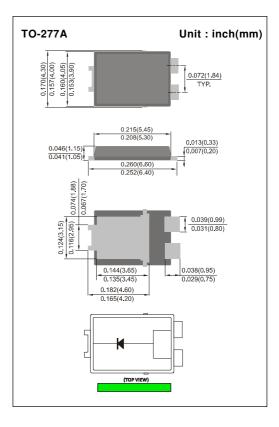
- · Ideal for automated placement
- · Ultra low forward voltage drop, low power loss

45 Volt

- · High efficiency Operation
- · Low thermal resistance
- · 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(TA=25°C unless otherwise noted)

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage			45	V
Maximum RMS Voltage			32	V
Maximum DC Blocking Voltage			45	V
Maximum Average Rectified Output Current			10	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load			275	А
Typical Thermal Resistance, Junction to Ambient Junction to Case	(Note 2) (Note 1)	Reja Rejc	110 8	°C/W
Operating Junction Temperature Range And Storage Temperature Range			-55 to + 150	°C

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.



SVM1045VA

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	F=3A F=5A F=10A F=3A F=5A	Ta=25°C Ta=125°C		0.34 0.38 0.44 0.27 0.32	- - 0.47 -	V V
		IF=10A	TA=125°C	-	0.32	-	v
Reverse current	Ιr	Vr=36V	Ta=25°C	-	32	-	А
		VR=45V	Ta=25°C Ta=125°C	- -	- 8.6	0.25 -	mA mA

RATING AND CHARACTERISTIC CURVES

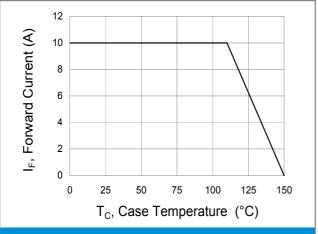
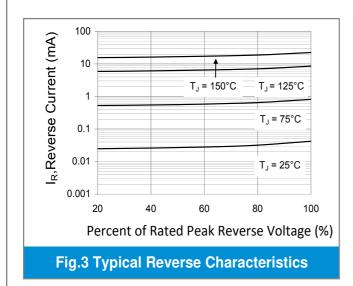


Fig.1 Forward Current Derating Curve



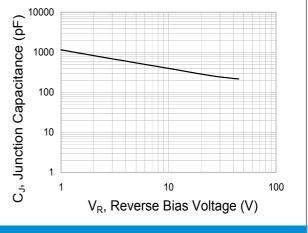
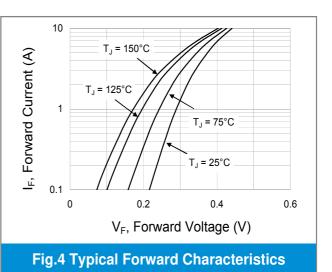


Fig.2 Typical Junction Capacitance





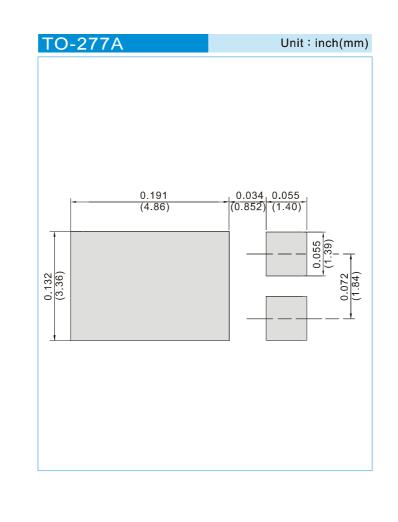


SVM1045VA

PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
SVM1045VA_R2_00001	TO-277A	5K pcs / 13" reel	SVM1045V	Halogen free

MOUNTING PAD LAYOUT







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