

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 45 Volt CURRENT 10 Ampere

FEATURES

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

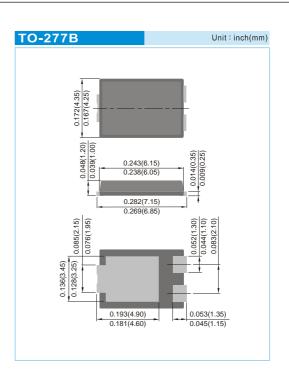
• Case: TO-277B, Plastic

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

• Weight: 0.0038 ounces, 0.1088 grams

Marking : Part number





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		VR	45	V
Maximum Average Rectified Output Current			10	Α
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load			275	Α
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Roja Rojc	110 8	°C/W
Operating junction temperature range and Storage temperature range		Тл,Твтв	-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.



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=3A I F=5A I F=10A	Ta=25°C		0.34 0.38 0.44	- - 0.47	V
		F=3A F=5A F=10A	Ta=125°C		0.27 0.32 0.41	- - -	V
Reverse current I R		VR=36V	Ta=25°C	-	32	-	μΑ
	IR	VR=45V	T _A =25°C T _A =125°C	-	- 8.6	0.25	mA mA



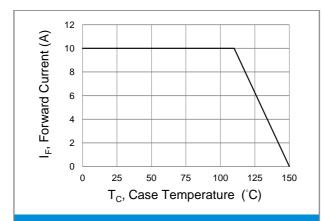


Fig.1 Forward Current Derating Curve

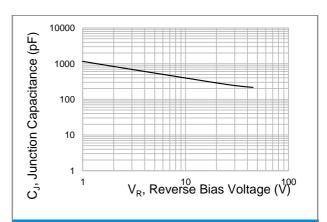


Fig.2 Typical Junction Capacitance

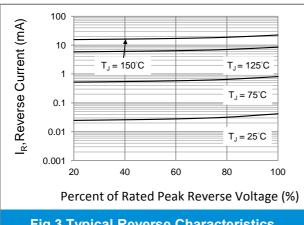


Fig.3 Typical Reverse Characteristics

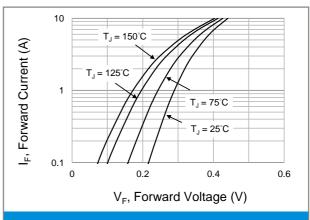


Fig.4 Typical Forward Characteristics

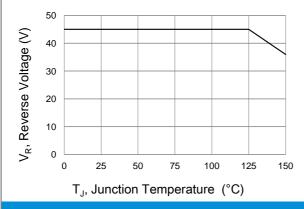
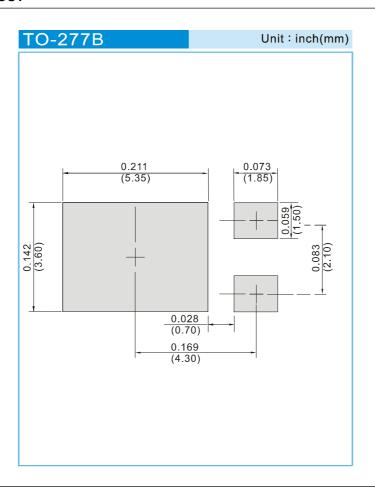


Fig.5 Operating Temperature Derating Curve



MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel



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