



SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40~100 Volt CURRENT 5 Ampere

FEATURES

- Ideal for automated placement
- 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)

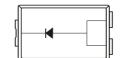
MECHANICAL DATA

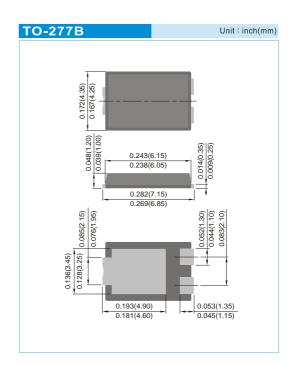
• Case: TO-277B, Plastic

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

• Weight: 0.0038 ounces, 0.1088 grams

· Marking: Part number





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

PARAMETER	SYMBOL	SV540B	SV5100B	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40 100		V
Maximum RMS Voltage	V _{RMS}	28	70	V
Maximum DC Blocking Voltage	V _R	40	100	V
Maximum Average Forward Current	I _o	5		А
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	1	А	
Maximum Forward Voltage at 5A	V _F	0.52	0.87	V
Maximum DC Reverse Current T _J =25°C	I _R	250	15	μА
Maximum DC Reverse Current T _J =100°C	I _R	20	2	mA
Typical Junction Capacitance at VR=0V, f=1MHz	C	730	475	pF
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)	R _{⊖JA} R _{⊖JL}	80 15		°C/W
Operating Junction Temperature and Storage Temperature Range	T _J ,T _{STG}			

NOTES:1. Mounted on minimum pad layout.

2. Mounted on 50cm² copper pad area.





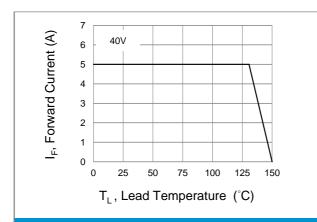


Fig.1 Forward Current Derating Curve

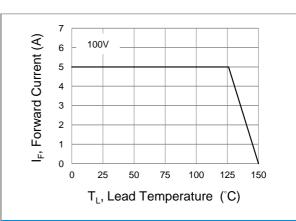


Fig.2 Forward Current Derating Curve

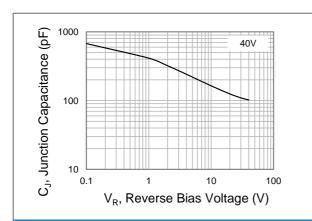


Fig.3 Typical Junction Capacitance

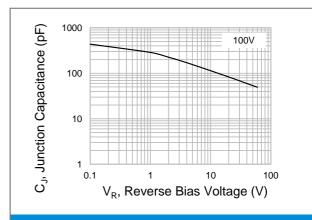
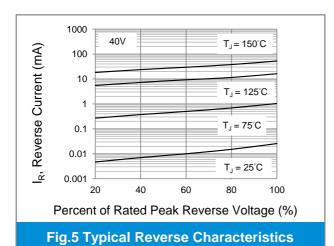


Fig.4 Typical Junction Capacitance



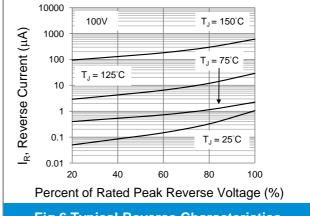


Fig.6 Typical Reverse Characteristics





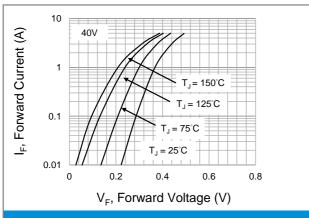


Fig.7 Typical Forward Characteristics

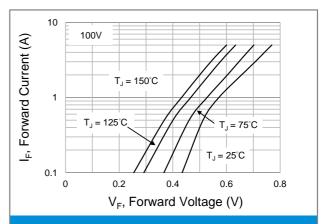


Fig.8 Typical Forward Characteristics

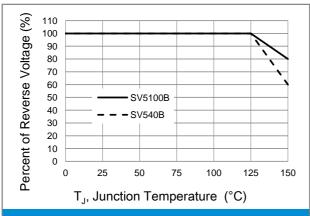
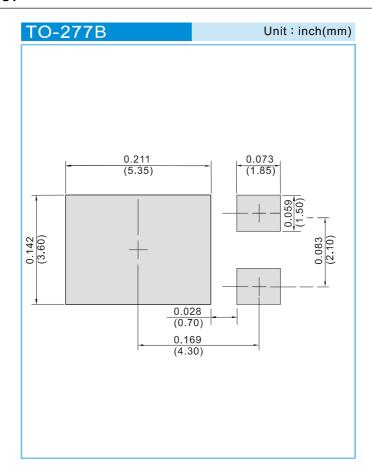


Fig.9 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SV540B_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
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		-	





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