



SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40~100 Volt CURRENT 5 Amper

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

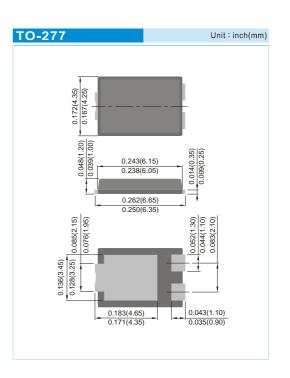
• Case: TO-277, Plastic

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

• Weight: 0.0037 ounces, 0.1073 grams

· Marking: Part number





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

PARAMETER			SV540	SV5100	UNITS
Maximum Recurrent Peak Reverse Voltage			40	100	٧
Maximum RMS Voltage		V _{RMS}	28	70	V
Maximum DC Blocking Voltage		V _R	40	100	V
Maximum Average Forward Current at Temp=75°C		I _o	5		Α
Forward Surge Current: 8.3ms single half sine-wave superimposed on load		I _{FSM}	150		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	μΑ
Maximum DC Reverse Current	T _J =100°C	I _R	20	2	mA
Typical Junction Capacitance at VR=0V, f=1MHz		CJ	730	475	pF
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)		R _{⊕JA} R _{⊕JL}	R _{OJA} 80 R _{OJL} 15		°C/W
Operating Junction Temperature and Storage Temperature Range		T_{J},T_{STG}	-55 to +150		°C

NOTES: 1.Mounted on minimum pad layout.

2.Mounted on 50cm² copper pad area.





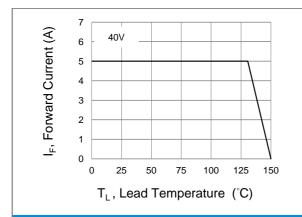


Fig.1 Forward Current Derating Curve

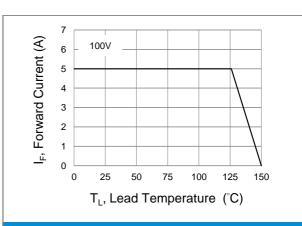


Fig.2 Forward Current Derating Curve

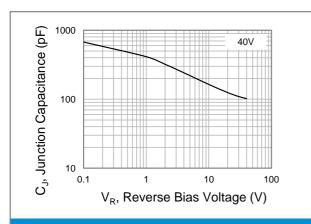


Fig.3 Typical Junction Capacitance

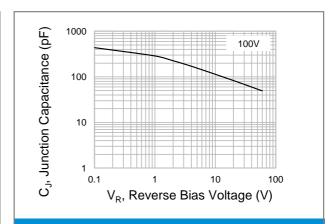


Fig.4 Typical Junction Capacitance

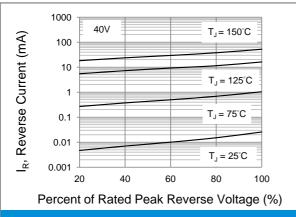


Fig.5 Typical Reverse Characteristics

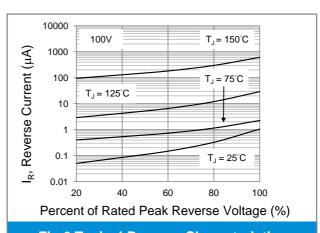


Fig.6 Typical Reverse Characteristics





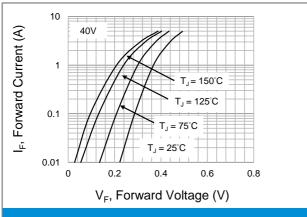


Fig.7 Typical Forward Characteristics

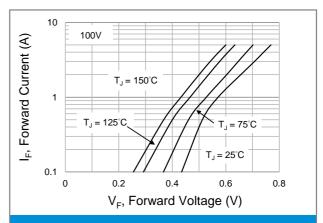


Fig.8 Typical Forward Characteristics

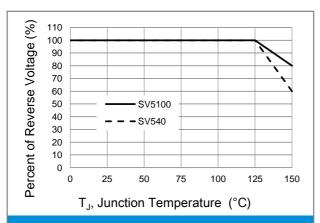
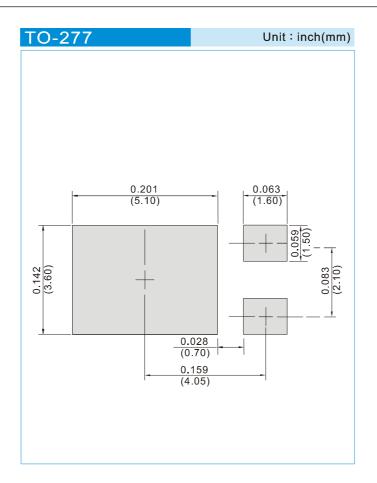


Fig.9 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SV540_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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