SV540 / SV5100

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)

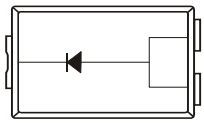
MECHANICAL DATA

Case : TO-277, Plastic

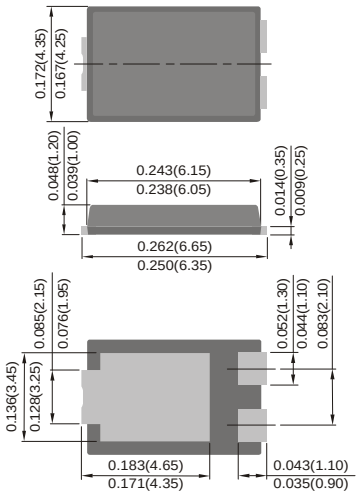
Terminals : Solderable per MIL-STD-750, Method 2026

Weight: 0.0037 ounces, 0.1073 grams

Marking : Part number



TO-277 Unit : inch(mm)



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

PARAMETER	SYMBOL	SV540	SV5100	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 at Temp=75°C	I_O	5		A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150		A
Maximum Forward Voltage at 5A	V_F	0.52	0.87	V
Maximum DC Reverse Current T_J=25°C	I_R	250	15	μA
Maximum DC Reverse Current T_J=100°C	I_R	20	2	mA
Typical Junction Capacitance at V_R=0V, f=1MHz	C_J	730	475	pF
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)	$R_{\Theta JA}$ $R_{\Theta JL}$	80 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 50cm^2 copper pad area.

SV540 / SV5100

RATING AND CHARACTERISTIC CURVES

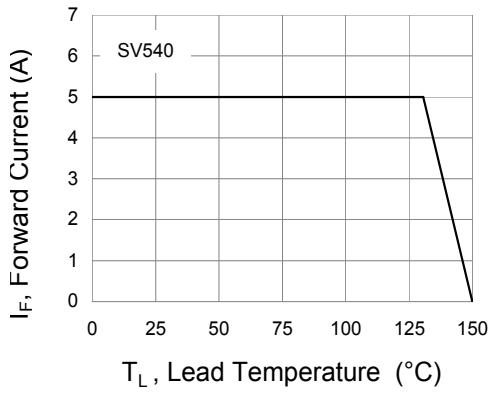


Fig.1 Forward Current Derating Curve

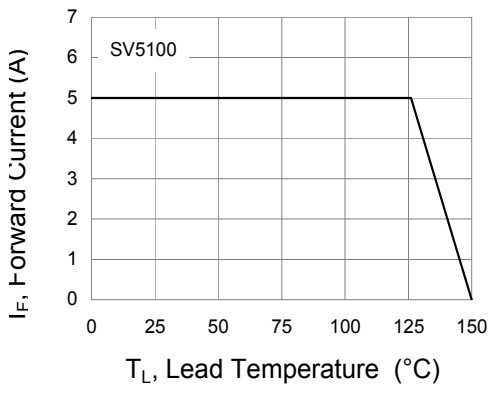


Fig.2 Forward Current Derating Curve

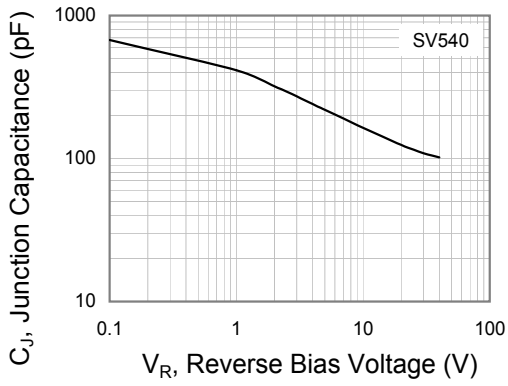


Fig.3 Typical Junction Capacitance

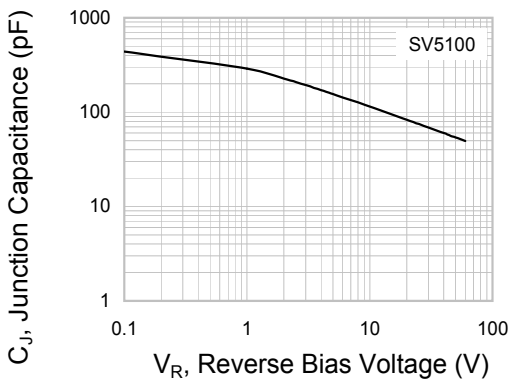


Fig.4 Typical Junction Capacitance

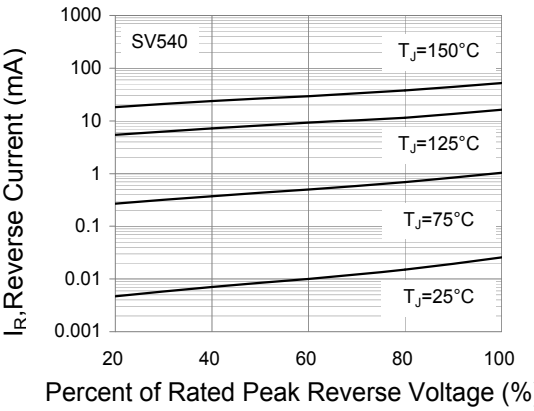


Fig.5 Typical Reverse Characteristics

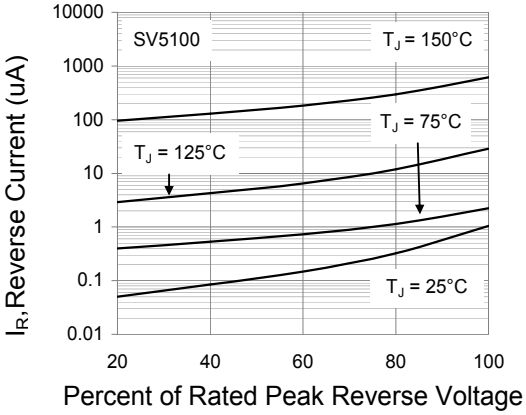


Fig.6 Typical Reverse Characteristics

SV540 / SV5100

RATING AND CHARACTERISTIC CURVES

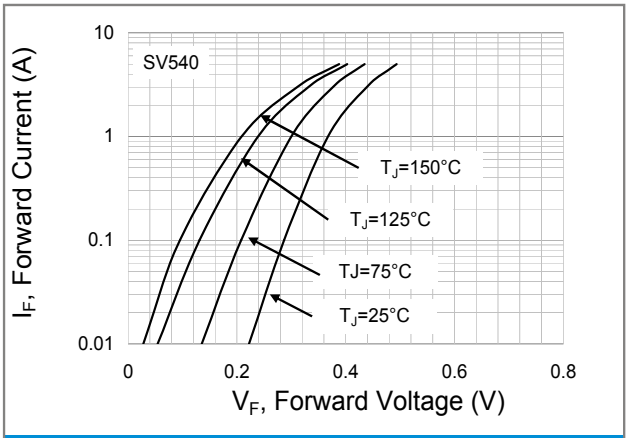


Fig.7 Typical Forward Characteristics

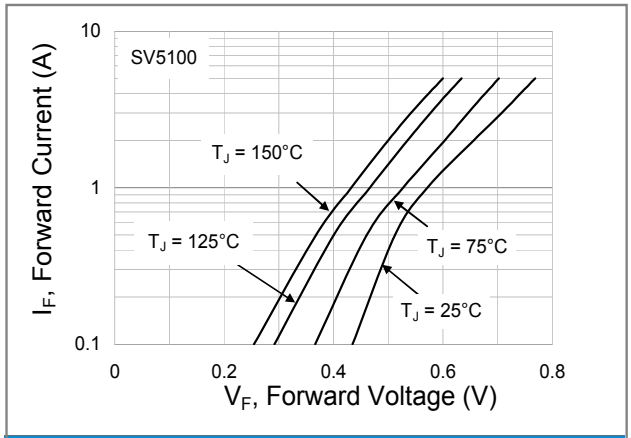
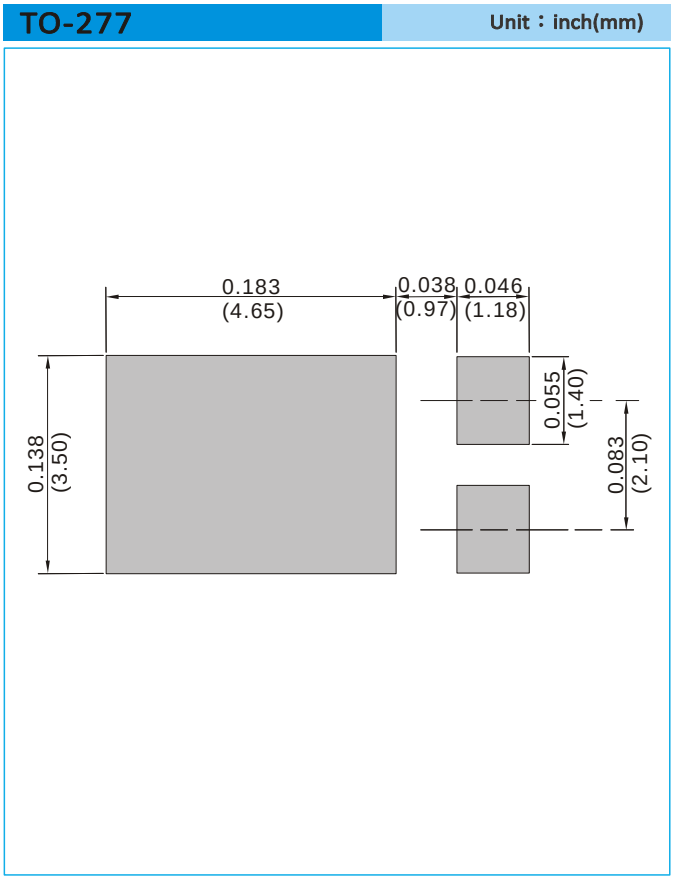


Fig.8 Typical Forward Characteristics

SV540 / SV5100

MOUNTING PAD LAYOUT

TO-277 Unit：inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 5K per 13" plastic Reel

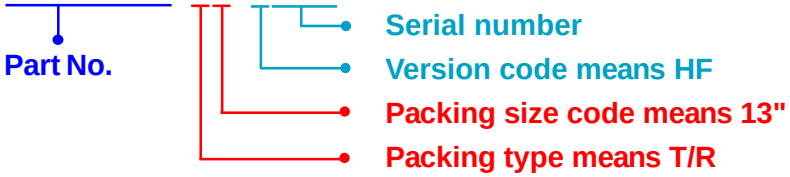
SV540 / SV5100

Part No_packing code_Version

SV540_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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			

SV540 / SV5100

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.