PANJIT SEMI CONDUCTOR

SV560L

LOW VF SCHOTTKY RECTIFIER

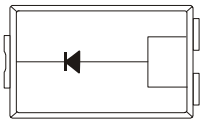
VOLTAGE	60 Volt	CURRENT	5 Ampere

FEATURES

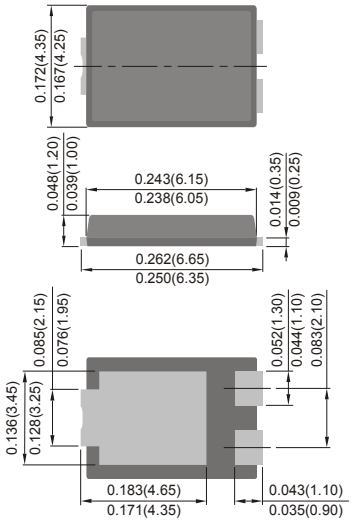
- Ideal for automated placement
- Low forward voltage drop, low power loss
- High efficiency Operation
- Low thermal resistance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case : TO-277, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight : 0.003 ounces, 0.092 grams
- Marking : Part number



TO-277 Unit : inch(mm)



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_R	60	V
Average Rectified Output Current	$I_{F(AV)}$	5	A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load	I_{FSM}	120	A
Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2)	$R_{\Theta JA}$ $R_{\Theta JL}$	60 10	°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.

SV560L

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V_{BR}	I_R=0.5mA	T_A=25°C	60	-	-	V
Instantaneous forward voltage	V_F	I_F=3A I_F=5A	T_A=25°C	- -	0.52 0.62	- 0.67	V
		I_F=3A I_F=5A	T_A=125°C	- -	0.47 0.56	- -	V
Reverse current	I_R	V_R=48V	T_A=25°C	-	14	-	μA
		V_R=60V	T_A=25°C T_A=125°C	- -	- 15	150 -	μA mA

SV560L

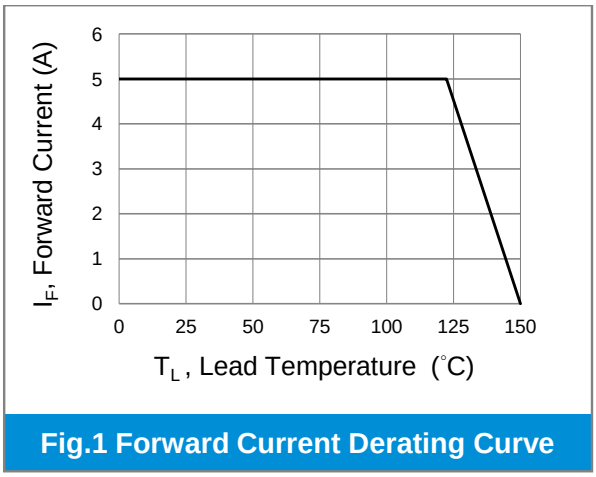


Fig.1 Forward Current Derating Curve

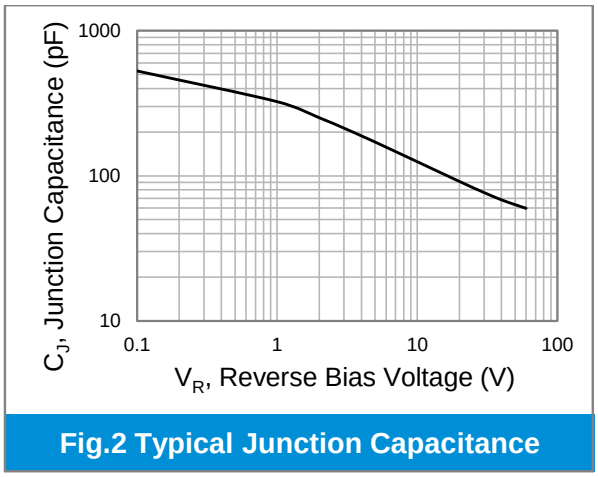


Fig.2 Typical Junction Capacitance

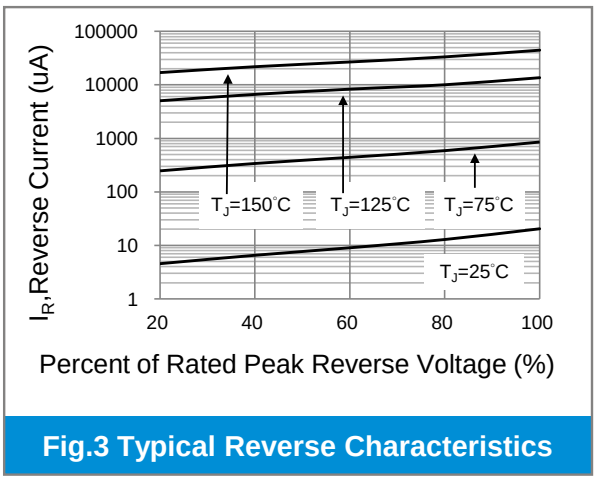


Fig.3 Typical Reverse Characteristics

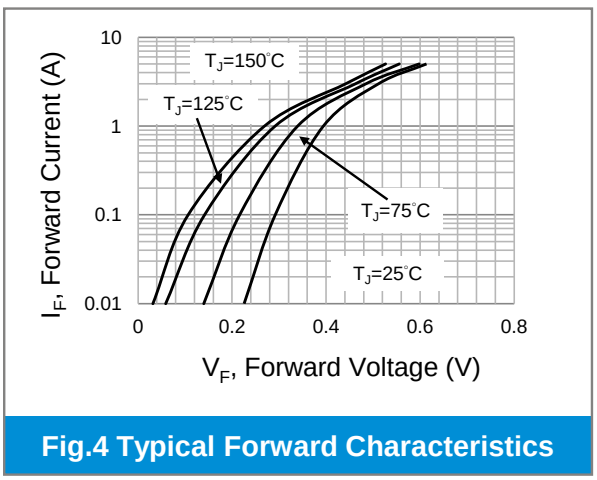


Fig.4 Typical Forward Characteristics

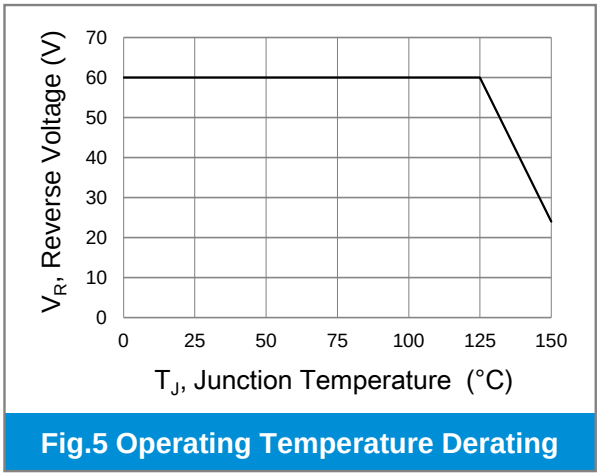
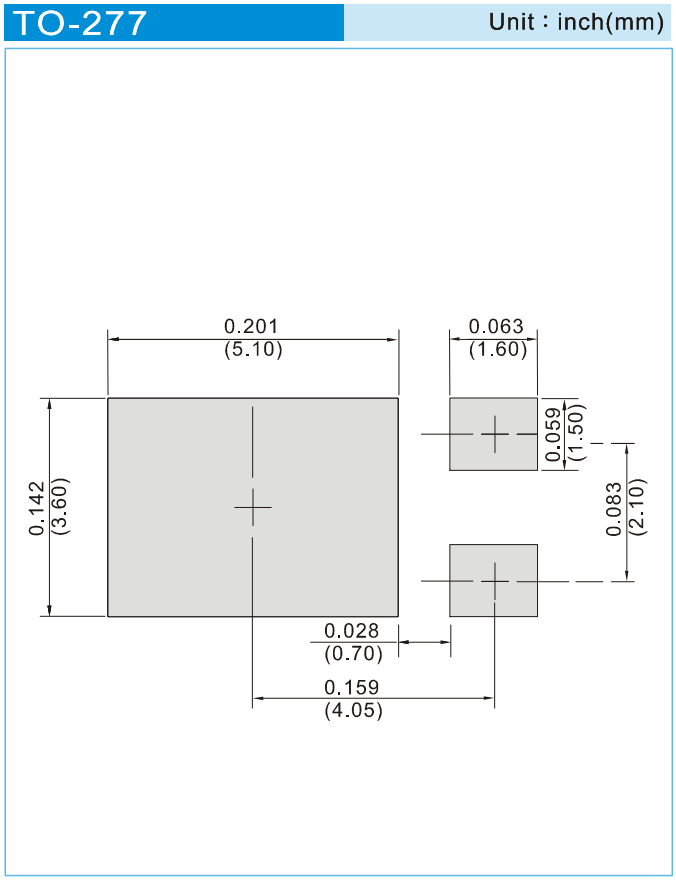


Fig.5 Operating Temperature Derating

SV560L

MOUNTING PAD LAYOUT

TO-277 Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 5K per 13" plastic Reel

SV560L

Part No_packing code_Version

SV560L_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

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			

SV560L

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