



SV560L

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volts **CURRENT** 5 Amperes

FEATURES

- Ideal for automated placement
- Low forward voltage drop, low power losses
- High efficiency Operation
- Low thermal resistance
- In compliance with EU RoHS 2002/95/EC directives

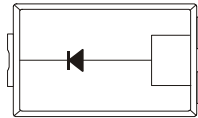
MECHANICAL DATA

Case : TO-277, Plastic

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

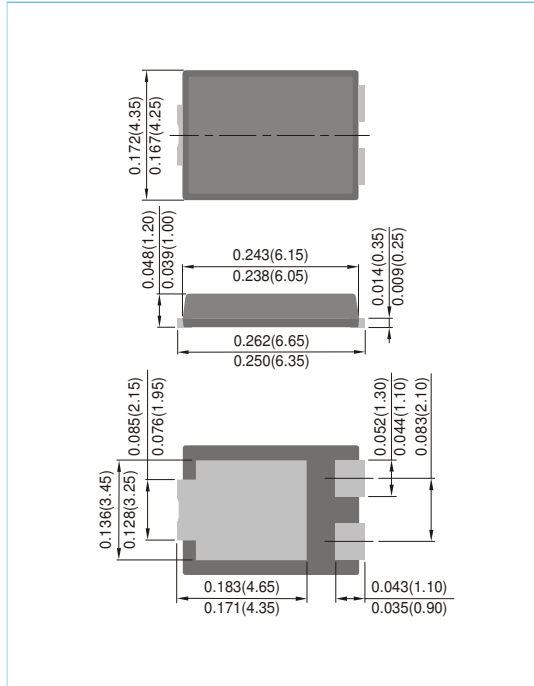
Weight: 0.0037 ounces, 0.1073 grams

Marking:SV560L



TO-277

Unit : inch(mm)



ABSOLUTE MAXIMUM RATINGS (TA=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 (JEDEC method)	I _{FSM}	120	A
Typical Thermal Resistance, Junction to Ambient (Note 1)	R _{θJA}	60	°C/W
Junction to Lead (Note 2)	R _{θJL}	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 50cm² copper pad area.



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ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

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

RATING AND CHARACTERISTIC CURVES

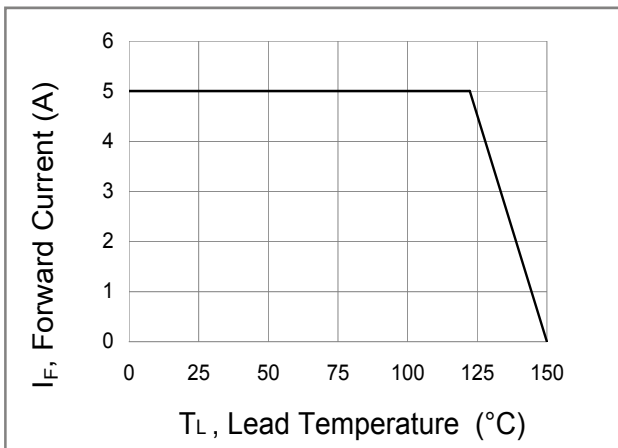


Fig.1 Forward Current Derating Curve

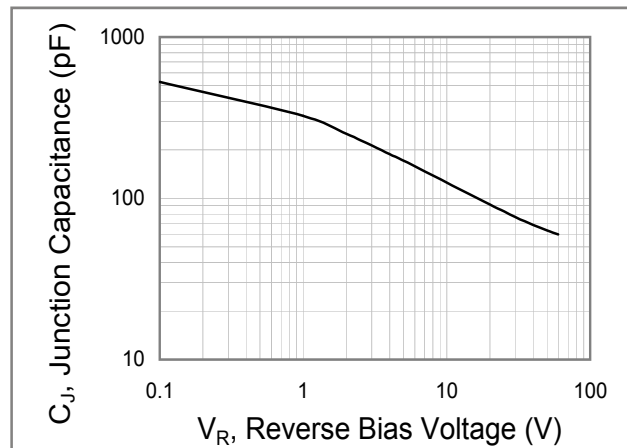


Fig.2 Typical Junction Capacitance

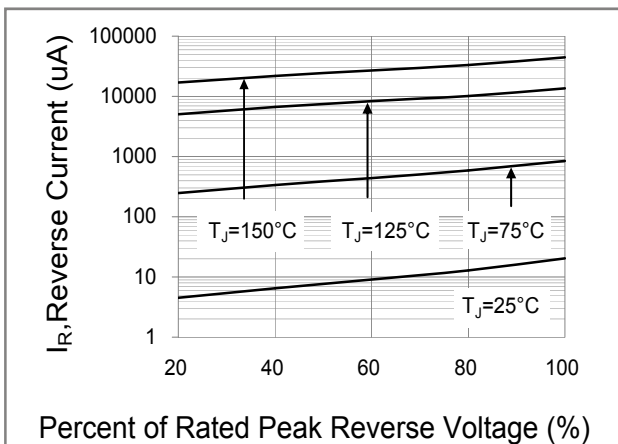


Fig.3 Typical Reverse Characteristics

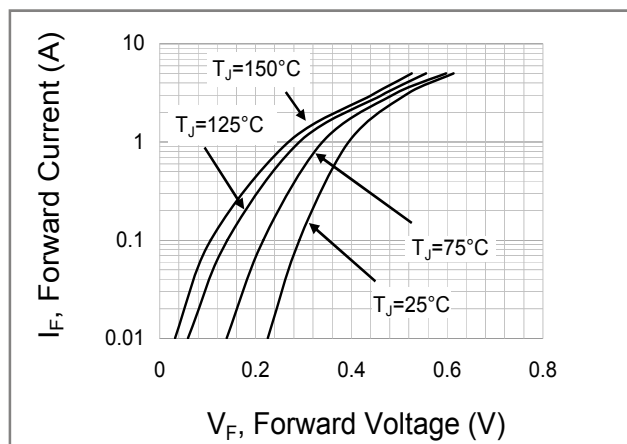
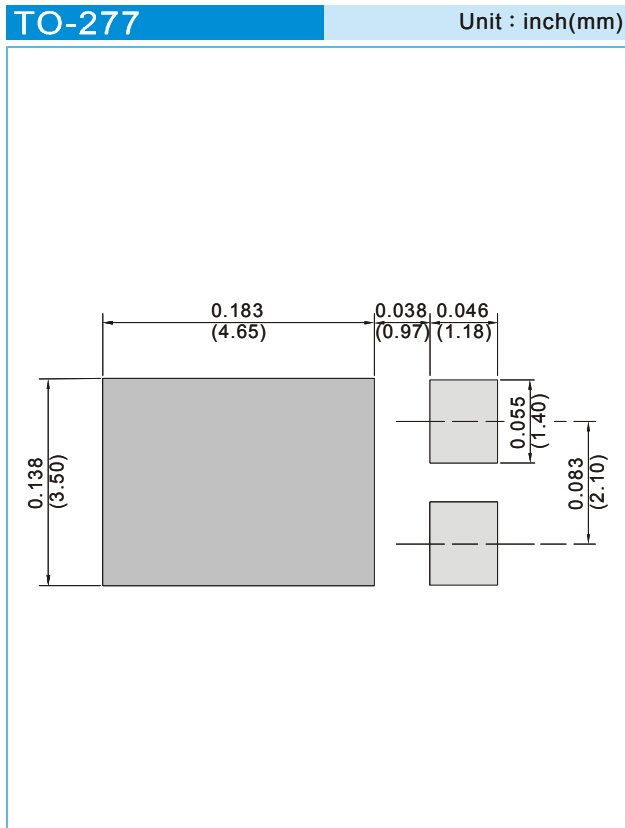


Fig.4 Typical Forward Characteristics



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 5K per 13" plastic Reel

LEGAL STATEMENT

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