



SV560L

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt **CURRENT** 5 Ampere

TO-277

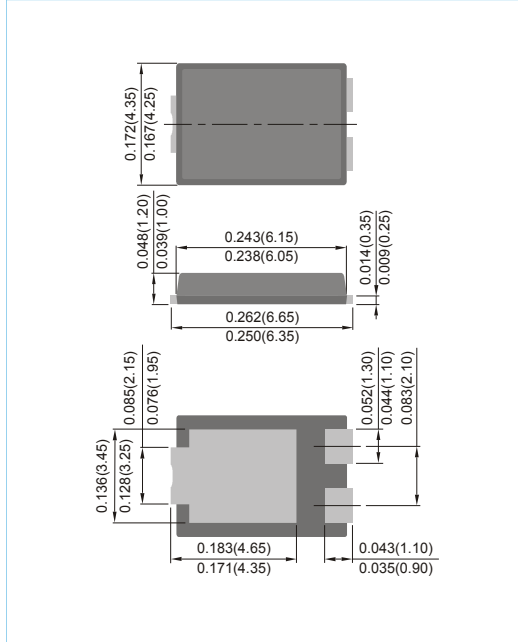
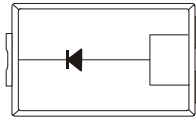
Unit : inch(mm)

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 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



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	R _{θJA}	60	°C/W
Junction to Lead	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.



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 T _A =25°C	-	0.52	-	V
		I _F =5A T _A =25°C	-	0.62	0.67	V
		I _F =3A T _A =125°C	-	0.47	-	V
		I _F =5A T _A =125°C	-	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

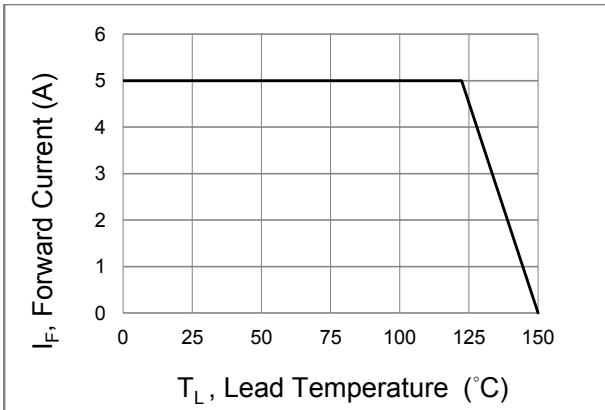


Fig.1 Forward Current Derating Curve

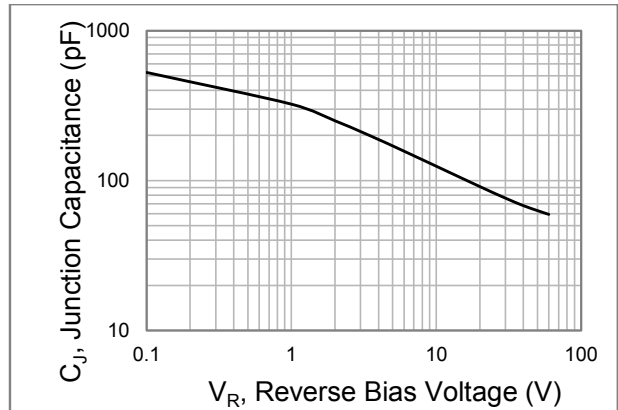


Fig.2 Typical Junction Capacitance

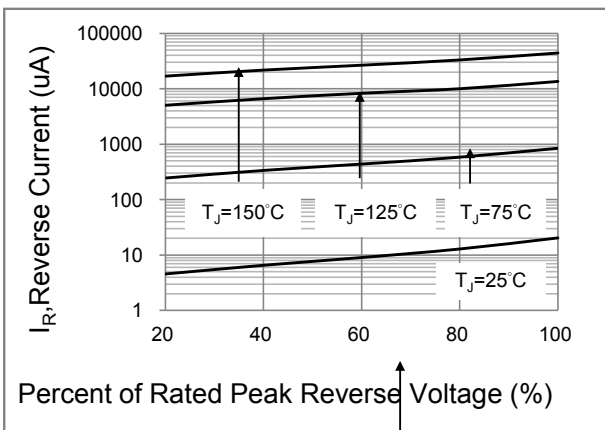


Fig.3 Typical Reverse Characteristics

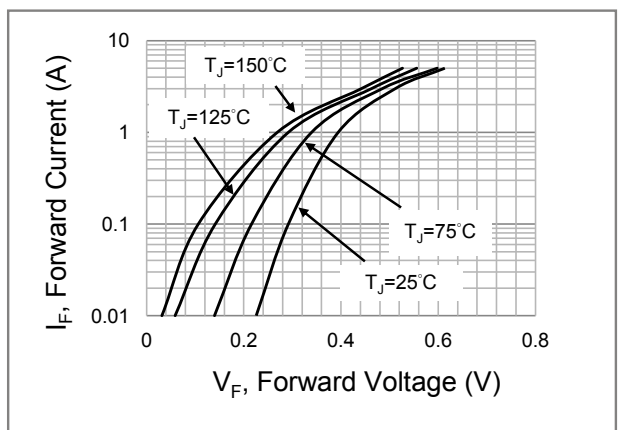


Fig.4 Typical Forward Characteristics

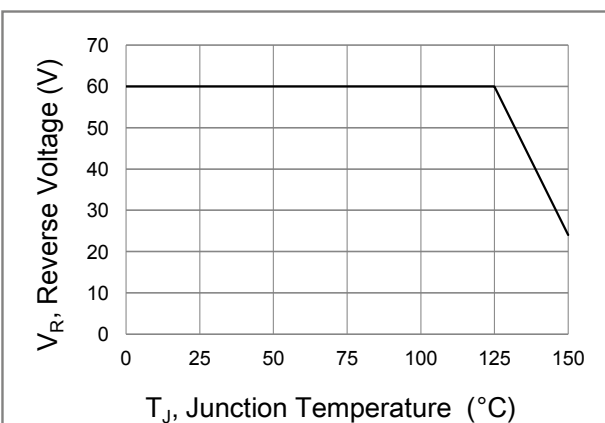


Fig.5 Operating Temperature Derating