



SV540 / SV5100

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40-100 Volts **CURRENT** 5 Amperes

FEATURES

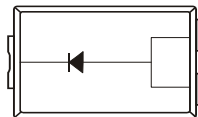
- Ideal for automated placement
- High efficiency Operation
- Low thermal resistance
- Green (Lead-free)

MECHANICAL DATA

Case : TO-277, Plastic

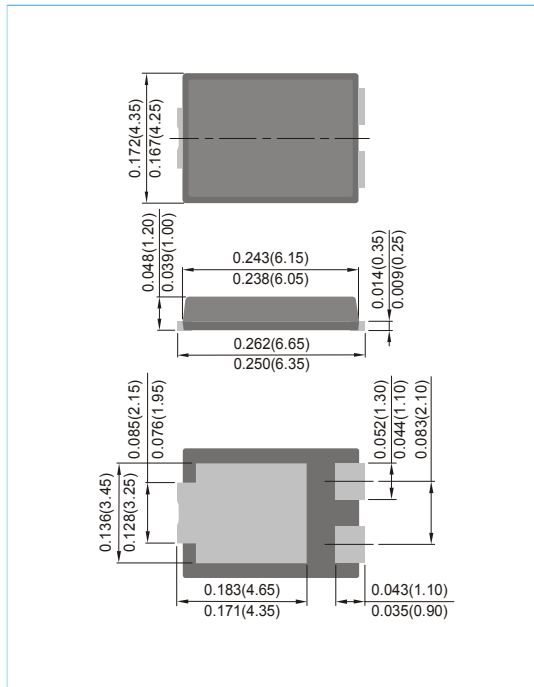
Terminals : Solderable per MIL-STD-750, Method 2026

Weight: 0.0038 ounces, 0.1073 grams



TO-277

Unit : inch(mm)



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

PARAMETER	SYMBOL	SV540	SV5100	UNITS
Marking Code		SV540	SV5100	
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(JEDEC method)	I_{FSM}	150		A
Maximum Forward Voltage at 5A	V_F	0.52	0.87	V
Maximum DC Reverse Current	I_R	250	15	μA
Typical Junction capacitance at Vr=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 50cm² copper pad area.



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RATING AND CHARACTERISTIC CURVES

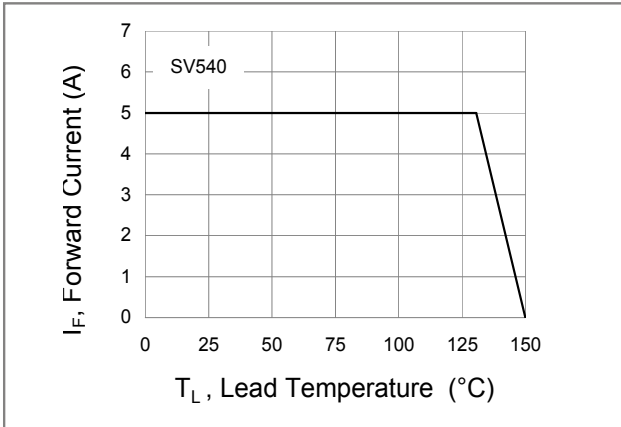


Fig.1 Forward Current Derating Curve

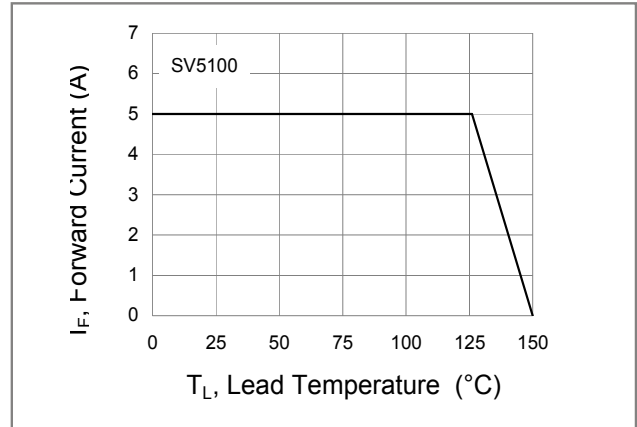


Fig.2 Forward Current Derating Curve

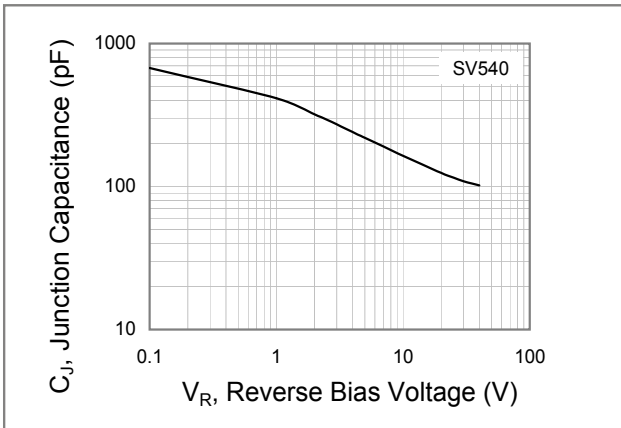


Fig.3 Typical Junction Capacitance

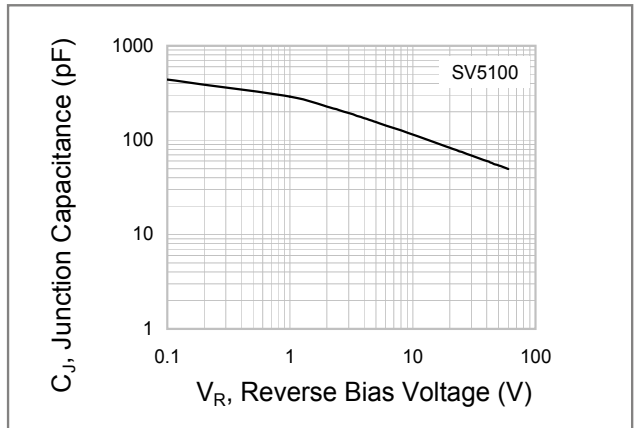


Fig.4 Typical Junction Capacitance

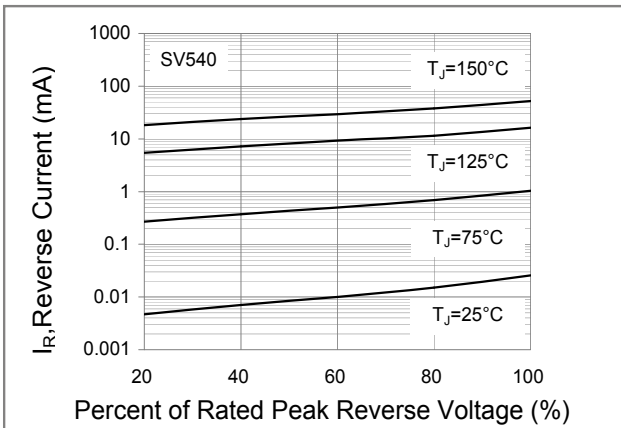


Fig.5 Typical Reverse Characteristics

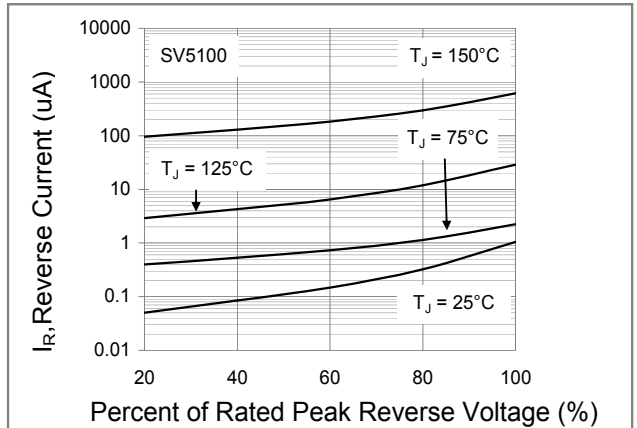


Fig.6 Typical Reverse Characteristics



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RATING AND CHARACTERISTIC CURVES

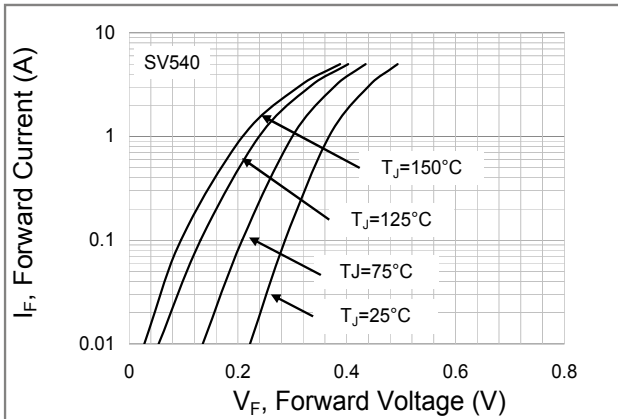


Fig.7 Typical Forward Characteristics

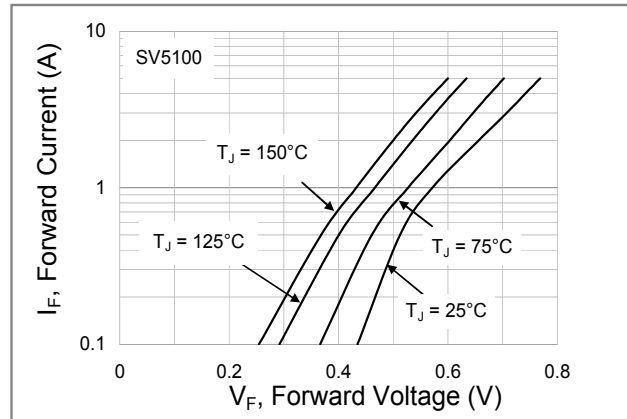
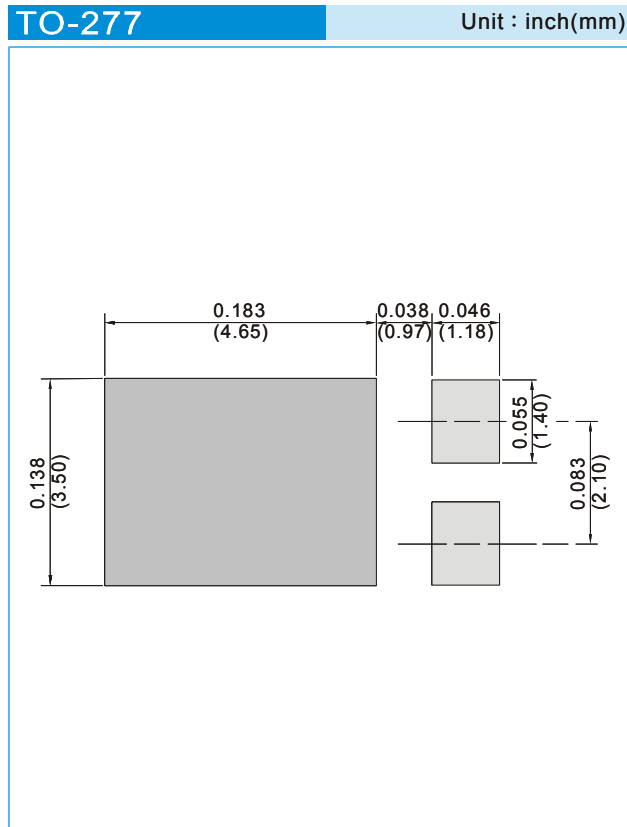


Fig.8 Typical Forward Characteristics



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

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