



SV10100U

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 100 Volts **CURRENT** 10 Amperes

TO-277

Unit : inch(mm)

FEATURES

- Ideal for automated placement
- Low forward voltage drop, low power losses
- High efficiency operation
- Low thermal resistance
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

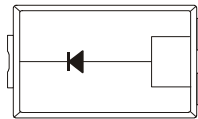
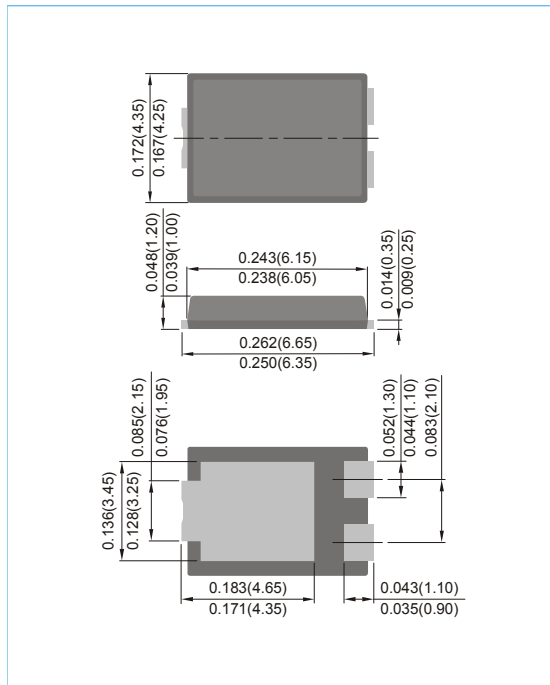
MECHANICAL DATA

Case : TO-277, Plastic

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

Weight : 0.0037 ounces, 0.1073 grams

Marking : SV10100U



MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	V
Maximum RMS Voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _R	100	V
Average Rectified Output Current	I _{F(AV)}	10	A
Peak forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300	A
Typical Thermal Resistance, Junction to Ambient (Notes 1)	R _{θJA}	23	°C/W
Junction to Lead (Notes 1)	R _{θJL}	10	°C/W
Operating Junction Temperature and Storage Temperature range	T _J , T _{STG}	-55 to + 150	°C

Notes :

1. Mounted on 25cm² copper pad area.



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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	100	-	-	V
Instantaneous forward voltage	V _F	I _F =3A T _A =25°C	-	0.48	-	V
		I _F =5A T _A =25°C	-	0.55	-	V
		I _F =10A T _A =25°C	-	0.65	0.68	V
		I _F =3A T _A =125°C	-	0.40	-	V
Reverse current	I _R	V _R =60V T _A =25°C	-	6	-	μA
		V _R =100V T _A =25°C	-	-	0.15	mA
		V _R =100V T _A =125°C	-	9.3	-	mA

RATING AND CHARACTERISTIC CURVES

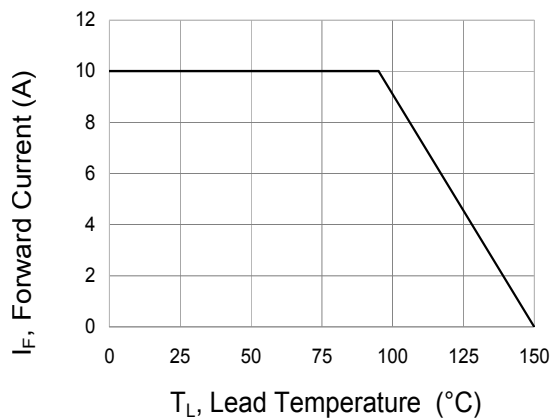


Fig.1 Forward Current Derating Curve

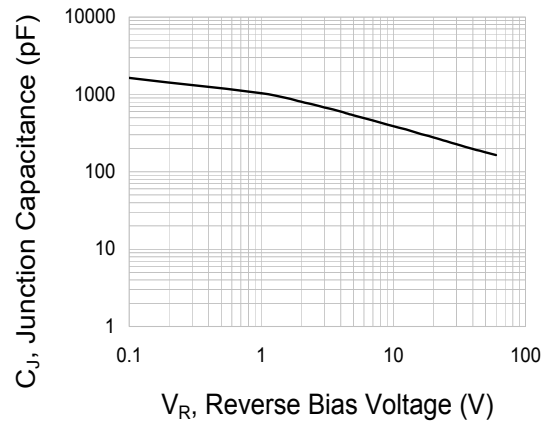


Fig.2 Typical Junction Capacitance

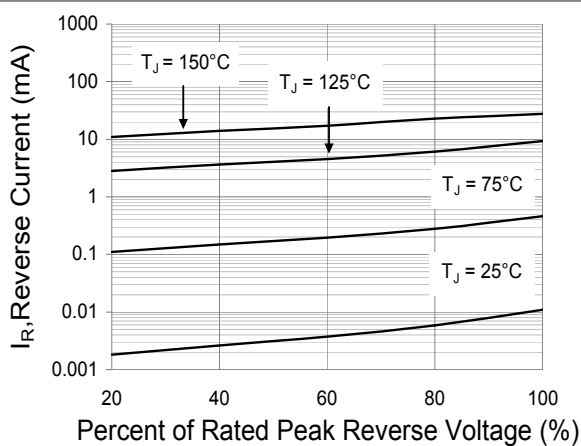


Fig.3 Typical Reverse Characteristics

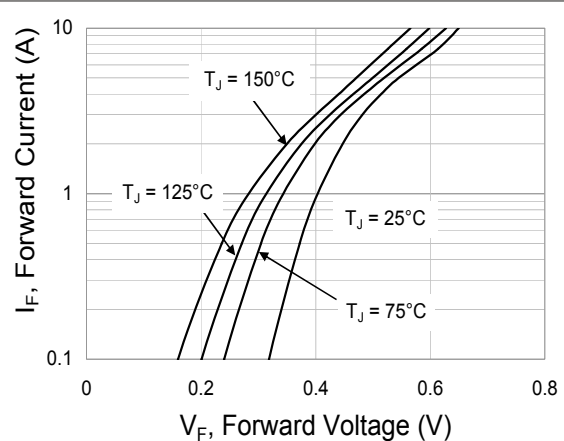
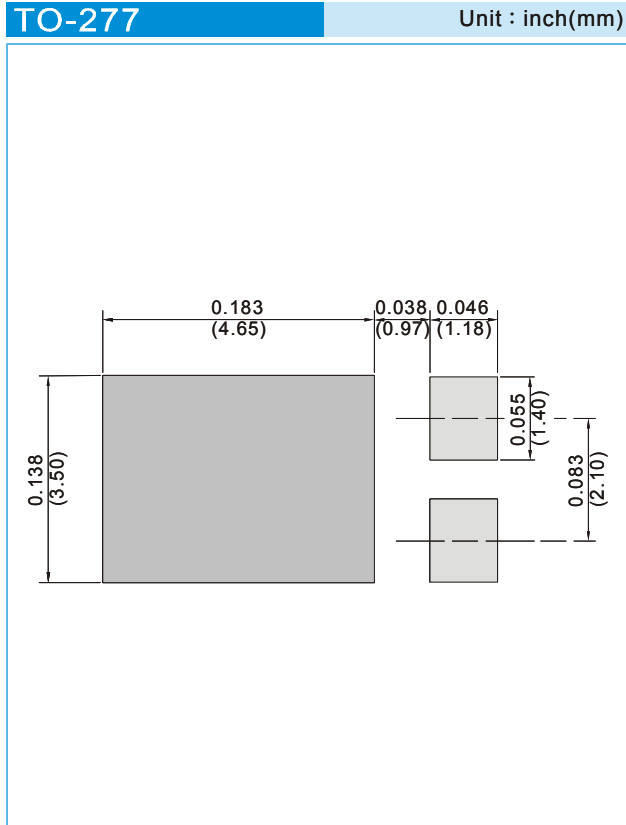


Fig.4 Typical Forward Characteristics



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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