



SV1040

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 Volt **CURRENT** 10 Ampere

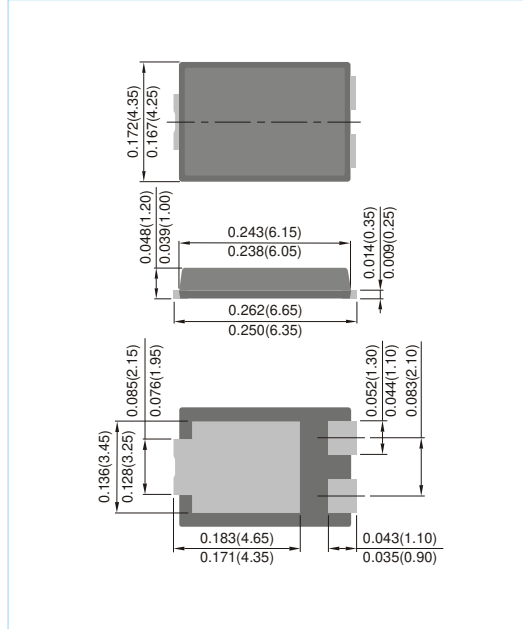
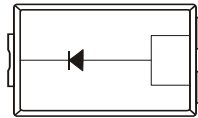
TO-277 Unit : inch(mm)

FEATURES

- Ideal for automated placement
- 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:SV1040



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	V
Maximum RMS Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V _R	40	V
Average Rectified Output Current @T _L =125°C	I _{F(AV)}	10	A
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	300	A
Typical Thermal Resistance, Junction to Ambient Junction to Lead	R _{θJA} R _{θJL}	60 4	°C/W
Operating Junction Temperature and Storage Temperature range	T _J ,T _{STG}	-55 to + 150	°C

Notes :

1. Mounted on 2cm² FR-4 PCB.
2. Mounted on 50cm² copper pad area.



SV1040

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V_{BR}	$I_R=1\text{mA}$ $T_A=25^{\circ}\text{C}$	40	-	-	V
Instantaneous forward voltage	V_F	$I_F=5\text{A}$ $T_A=25^{\circ}\text{C}$	-	0.44	-	V
		$I_F=10\text{A}$ $T_A=25^{\circ}\text{C}$	-	0.47	0.51	V
Reverse current	I_R	$V_R=32\text{V}$ $T_A=25^{\circ}\text{C}$	-	32	-	A
		$V_R=40\text{V}$ $T_A=25^{\circ}\text{C}$	-	-	0.7	mA
		$V_R=40\text{V}$ $T_A=125^{\circ}\text{C}$	-	32	-	mA



SV1040

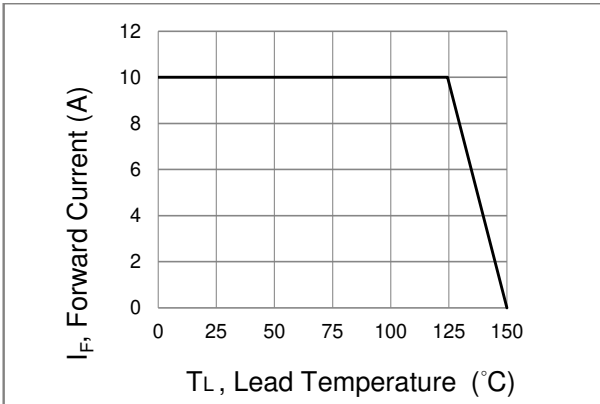


Fig.1 Forward Current Derating Curve

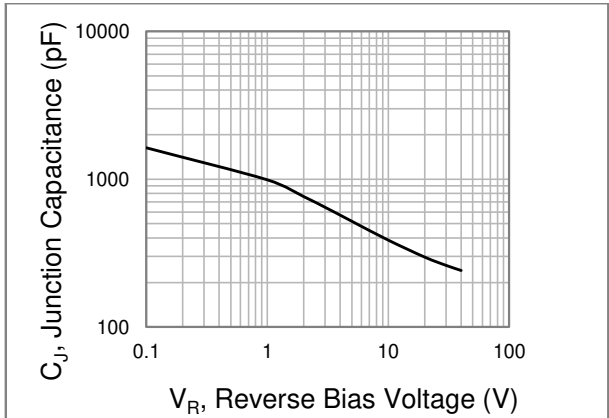


Fig.2 Typical Junction Capacitance

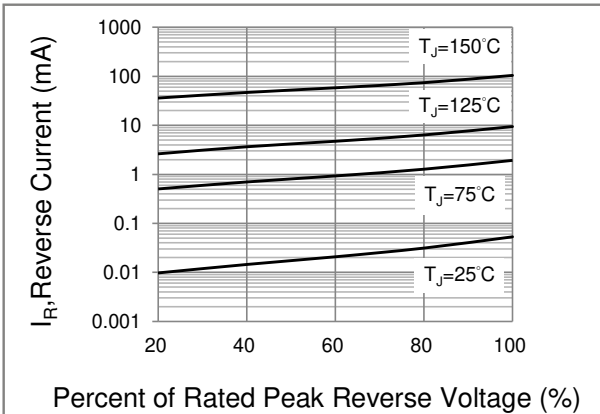


Fig.3 Typical Reverse Characteristics

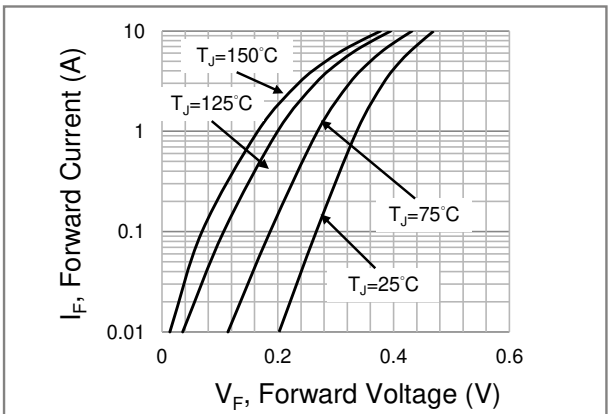


Fig.4 Typical Forward Characteristics

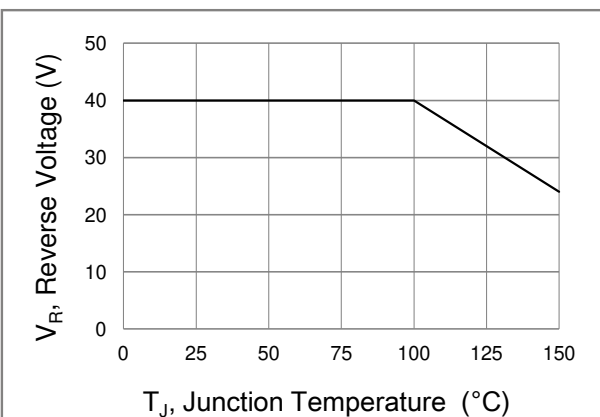
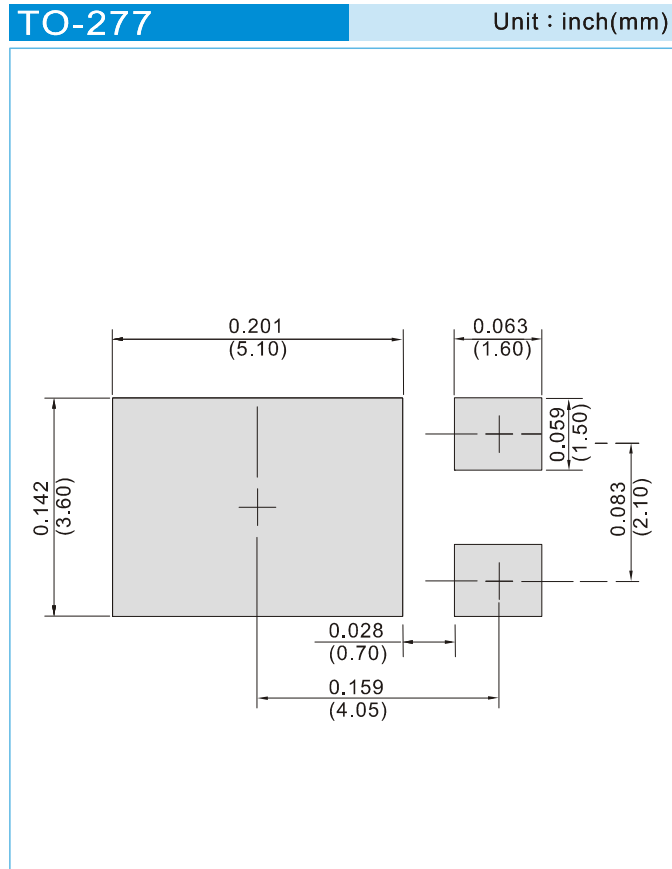


Fig.5 Operating Temperature Derating



SV1040

MOUNTING PAD LAYOUT



ORDER INFORMATION

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



SV1040

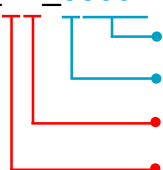
Part No_packing code_Version

SV1040_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	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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			



SV1040

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