



SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 Volt CURRENT 10 Ampere

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

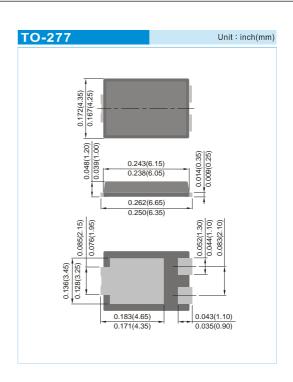
• Case: TO-277, Plastic

• 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			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	40	V
Maximum RMS Voltage		VRMS	28	V
Maximum DC Blocking Voltage		VR	40	V
Average Rectified Output Current @TL=125°C		I F(AV)	10	А
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load		İFSM	300	А
Typical Thermal Resistance, Junction to Ambient Junction to Lead	(Note 1)	Roja Rojl	60 4	°C/W
Operating Junction Temperature and Storage Temperature range		ТЈ,Тѕтс	-55 to + 150	°C

Notes:

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





ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=1mA	Ta=25°C	40	-	-	V
hatantana aya fanyand yakana	\/-	I F=5A I F=10A	T _A =25°C	-	0.44 0.47	- 0.51	V
Instantaneous forward voltage	VF	I F=5A I F=10A	Ta=125°C	-	0.31 0.40	- -	V
Danisa		VR=32V	T _A =25°C	-	32	-	μΑ
Reverse current	l R	VR=40V	T _A =25°C T _A =125°C	-	- 32	0.7	mA





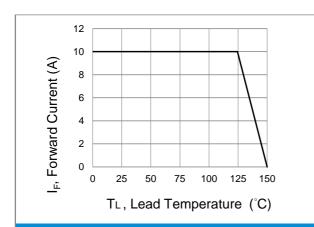


Fig.1 Forward Current Derating Curve

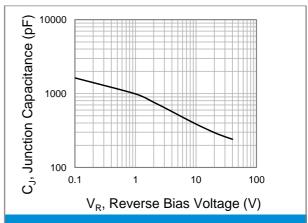


Fig.2 Typical Junction Capacitance

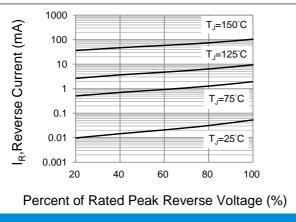


Fig.3 Typical Reverse Characteristics

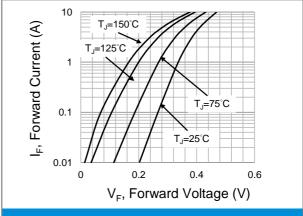


Fig.4 Typical Forward Characteristics

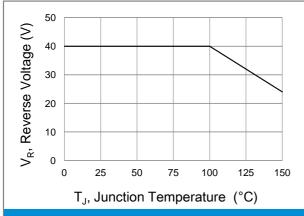
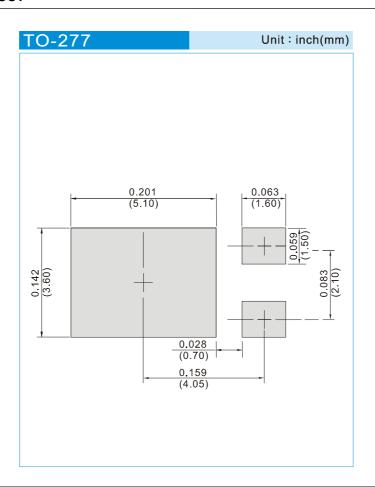


Fig.5 Operating Temperature Derating





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel

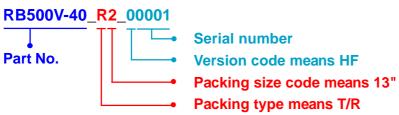




Part No_packing code_Version

SV1040_R2_00001

For example:



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)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	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			





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