



SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 Volts CURRENT 10 Amperes

FEATURES

- · Ideal for automated placement
- · High efficiency Operation
- · Low thermal resistance
- · Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

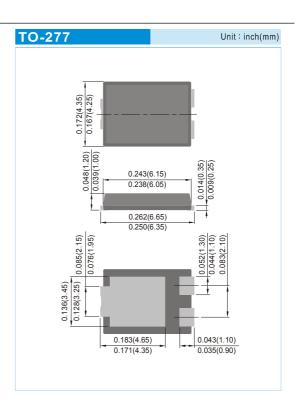
Case: TO-277, Plastic

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

Weight: 0.0037 ounces, 0.1073 grams

Marking: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
Maximum Average Rectified Output Current		l f(AV)	10	Α
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)		İfsm	300	Α
Typical Thermal Resistance, Junction to Ambient Junction to Lead	(Note 1) (Note 2)	Roja Rojl	60 4	°C/W
Operating Junction Temperature and Storage Temperature range		TJ,TSTG	-55 to + 150	°C

NOTES:

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

June 01.2012-REV.02 PAGE . 1





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=1mA	T _A =25°C	40	-	-	V
leatentees are forward uplicate	\/-	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	T _A =125°C	-	0.31 0.40	- -	V
December		V _R =32V	T _A =25°C	-	32	-	μА
Reverse current	IR	V _R =40V	T _A =25°C T _A =125°C		- 32	0.7	mA

RATING AND CHARACTERISTIC CURVES

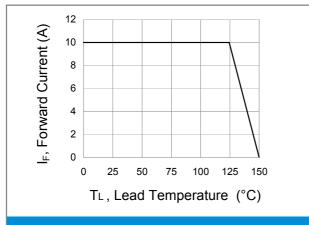


Fig.1 Forward Current Derating Curve

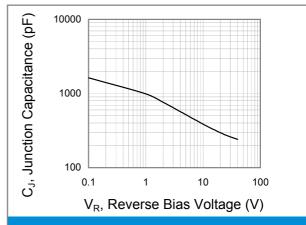


Fig.2 Typical Junction Capacitance

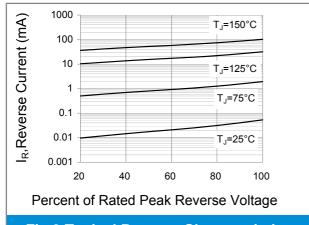


Fig.3 Typical Reverse Characteristics

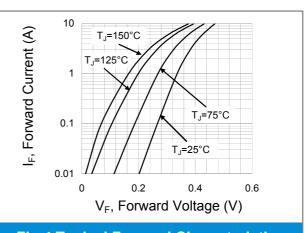


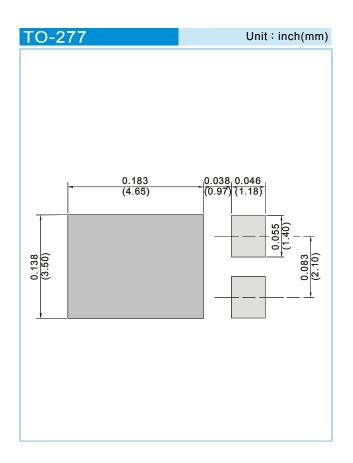
Fig.4 Typical Forward Characteristics

June 01.2012-REV.02 PAGE . 2





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SV1040_R2_00001 SV1040_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			

June 01.2012-REV.02 PAGE . 4





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.