



SCHOTTKY BARRIER RECTIFIER

VOLTAGE 45 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

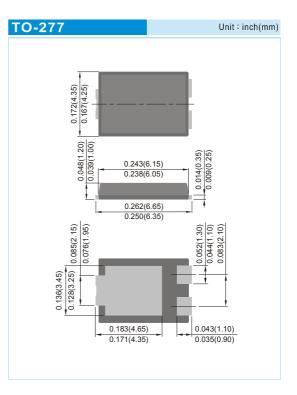
Case: TO-277, Plastic

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

Weight: 0.0037 ounces, 0.1073 grams

Marking: SV1045





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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	45	٧
Maximum RMS Voltage		VRMS	32	٧
Maximum DC Blocking Voltage		VR	45	٧
Maximum Average Rectified Output Current		I F(AV)	10	Α
Peak forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	300	Α
Typical Thermal Resistance, Junction to Ambient Junction to Lead	(Notes 1) (Notes 1)	Roja Rojl	36 7	°C/W
Operating Junction Temperature and Storage Temperature range		Т _J ,Тsтg	-55 to + 150	°C

Notes:

1. Mounted on 48cm² FR-4 PCB.





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	T _A =25°C	45	-	-	٧
Instantaneous forward voltage	VF	I = 3A I = 5A I = 10A	Ta=25°C	- - -	0.43 0.46 0.50	- - 0.55	V
		I = 3A I = 5A I = 10A	T _A =125°C	- - -	0.30 0.34 0.42	- - -	V
Reverse current	l R	VR=36V	T _A =25°C	-	5	-	μΑ
		V _R =45V	T _A =25°C T _A =125°C	-	- 9	50 -	uA mA

RATING AND CHARACTERISTIC CURVES

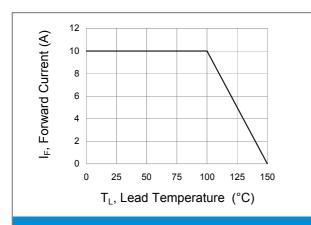


Fig.1 Forward Current Derating Curve

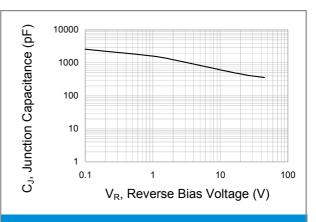


Fig.2 Typical Junction Capacitance

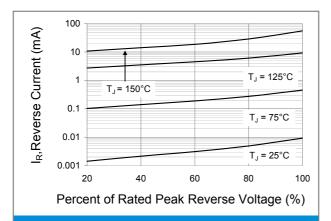


Fig.3 Typical Reverse Characteristics

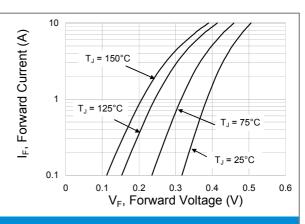
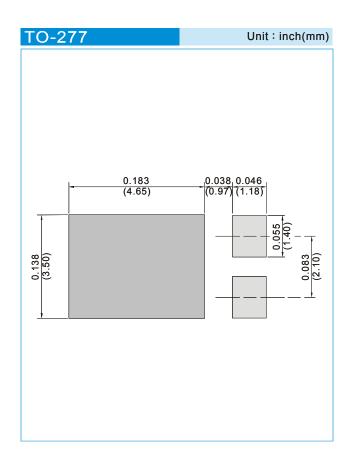


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SV1045_R2_00001 SV1045_10001

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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