



EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

Voltage

120 V

Current

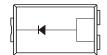
12 A

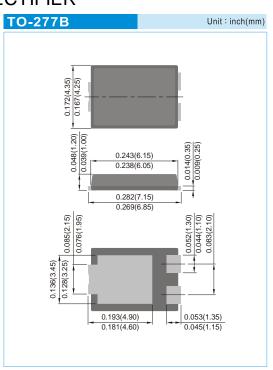
Features

- Ideal for automated placement
- Extreme low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

Mechanical Data

- Case: TO-277B package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.0038 ounces, 0.1088 grams.
- Marking: Part number





Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT	
Maximum repetitive peak reverse voltage		VRRM	120	V	
Maximum rms voltage		VRMS	84	V	
Maximum dc blocking voltage		VR	120	V	
Maximum average forward rectified current		I F(AV)	12	Α	
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		İfsm	200	А	
Typical thermal resistance	(Note 1)	$R_{\theta JA}$	110	°C/W	
	(Note 2)	$R_{ heta JC}$	3		
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Тѕтс	-55 to +150	°C	

Note: 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

2. Mounted on a 10cm*10cm*1mm copper pad area





Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	T _J =25°C	120	-	-	V
Instantaneous forward voltage	V _F	I _F =1A	T _J =25°C	-	0.47	-	V
		I _F =5A		-	0.64	-	
		I _F =12A		-	0.74	0.79	
		I _F =1A	T _J =125°C	-	0.37	-	V
		I _F =5A		-	0.52	-	
Reverse current	I _R	V _R =96V	T _J =25°C	-	3	-	μА
		V _R =120V	T _J =25°C	-	-	25	μА
			T _J =125°C	-	5	-	mA





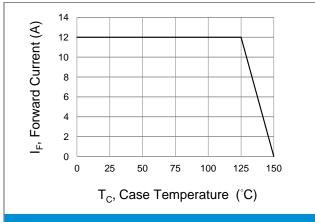


Fig.1 Forward Current Derating Curve

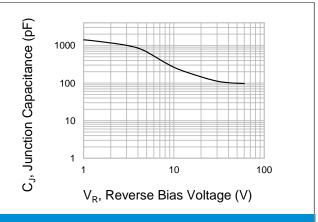


Fig.2 Typical Junction Capacitance

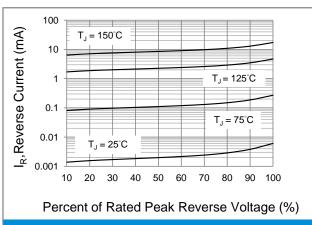


Fig.3 Typical Reverse Characteristics

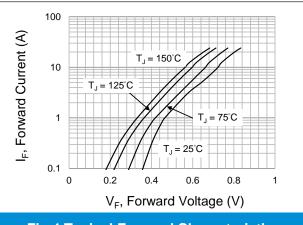


Fig.4 Typical Forward Characteristics

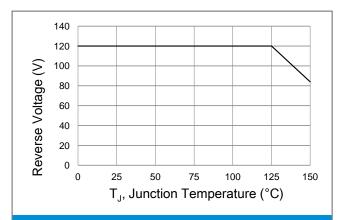
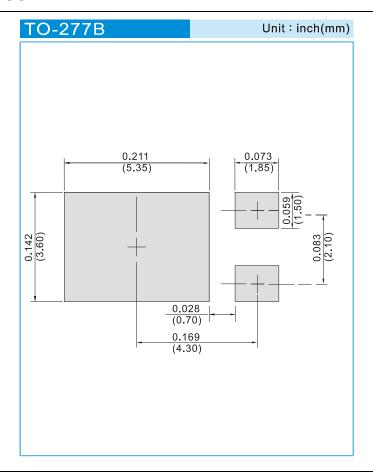


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

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

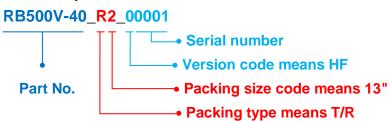




Part No_packing code_Version

SVT12120UB_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		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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