



EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

Voltage

80 V

Current

20 A

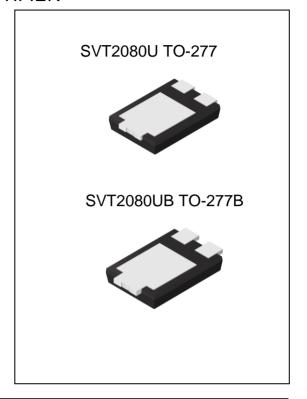
Features

- 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-277, TO-277B package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- TO-277 Weight: 0.00379 ounces, 0.1073 grams.
- TO-277B 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	80	V	
Maximum rms voltage	VRMS	56	V		
Maximum dc blocking voltage	VR	80	V		
Maximum average forward rectified current	I F(AV)	20	Α		
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		İFSM	300	А	
Typical thermal resistance	(Note 1)	$R_{ heta JA}$	110	°C/W	
	(Note 2)	$R_{ heta JC}$	5		
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	80	-	-	V
Instantaneous forward voltage	V _F	I _F =1A		-	0.35	-	
		I _F =5A	T _J =25°C	-	0.44	-	V
		I _F =20A		-	-	0.66	
		I _F =1A	T 40500	-	0.24	-	
		I _F =5A	T _J =125°C	-	0.36	-	V
Reverse current	I _R	V _R =64V	TJ=25°C	-	15	-	μА
		.,	T _J =25°C	-	-	150	μА
		V _R =80V	T _J =125°C	-	9	-	mA

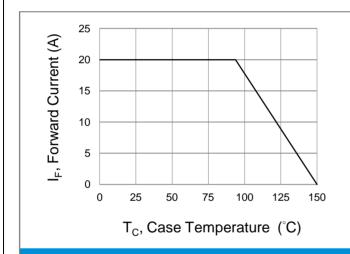


Fig.1 Forward Current Derating Curve

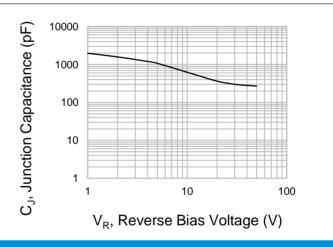
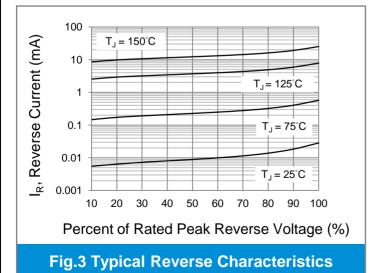
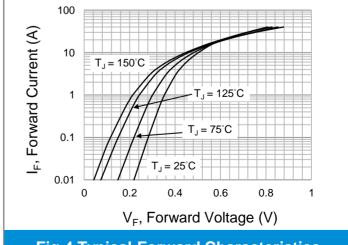


Fig.2 Typical Junction Capacitance



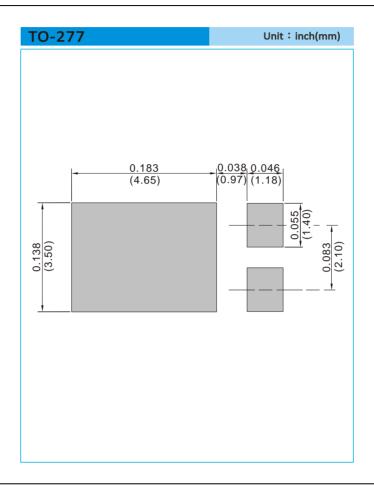








MOUNTING PAD LAYOUT



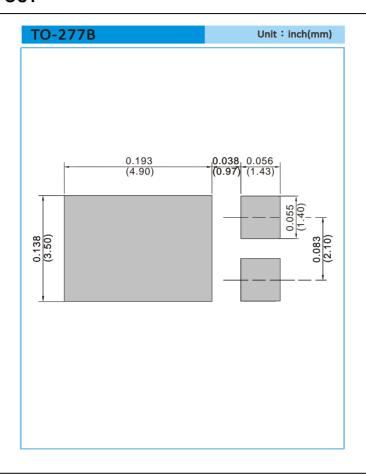
ORDER INFORMATION

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





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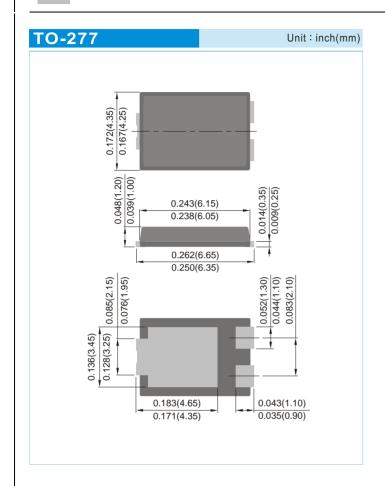


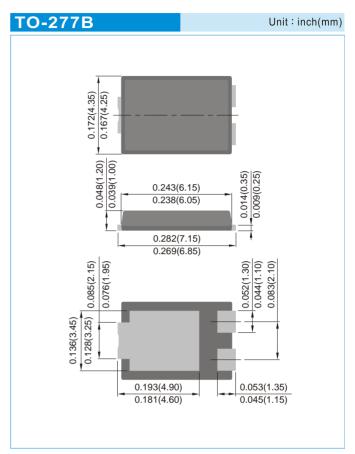
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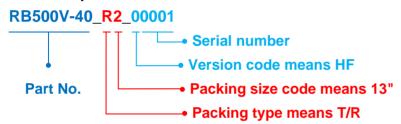




Part No_packing code_Version

SVT2080U_R2_00001 SVT2080UB_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)	A	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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