



EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

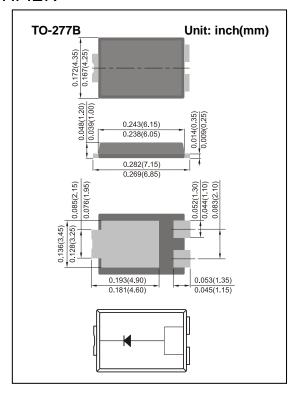
Voltage 80 V Current 10 A

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.



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)	10	А		
Peak forward surge current: 8.3ms single have superimposed on rated load	İfsm	150	А		
Typical thermal resistance	(Note 1)	$R_{\theta JA}$	110	9000	
	(Note 2)	$R_{ heta JC}$	3	°C/W	
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*0.5mm 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	-	ı	V
		I _F =1A	T _J =25°C	-	0.38	-	
		I _F =3A		-	0.44	-	V
Instantaneous forward voltage	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	I _F =10A		-	-	0.63	
		I _F =1A	T. 405°C	-	0.26	-	V
		0.36	-	V			
		V _R =64V	T _J =25°C	-	6	-	μΑ
Reverse current	I _R	\/ 00\/	T _J =25°C	-	-	40	μΑ
		V _R =80V	T _J =125°C	-	7	-	mA





TYPICAL CHARACTERISTIC CURVES

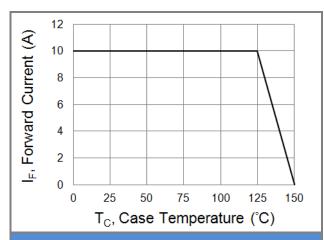


Fig.1 Forward Current Derating Curve

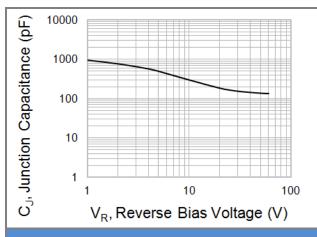


Fig.2 Typical Junction Capacitance

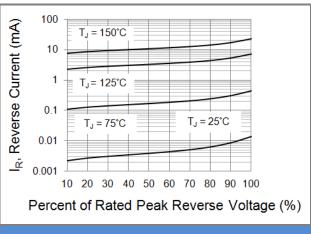


Fig.3 Typical Reverse Characteristics

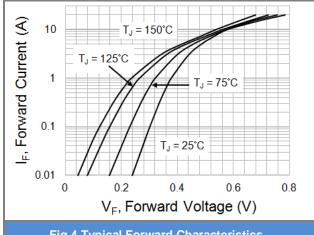


Fig.4 Typical Forward Characteristics

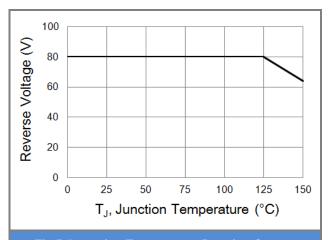


Fig.5 Operating Temperature Derating Curve





Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version	
SVT1080XB_R2_00001	TO-277B	5K pcs / 13" reel	SVT1080XB	Halogen free	





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