

## SVT2080UA

#### EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

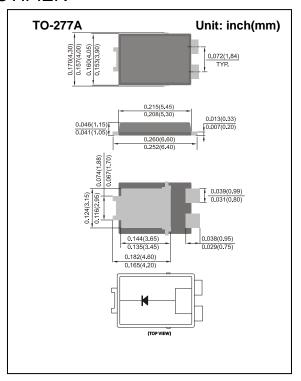
Voltage 80 V Current 20 A

#### **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-277A package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.003 ounces, 0.0855 grams



# Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=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	<b>I</b> F(AV)	20	Α		
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	300	Α	
Typical thermal resistance	(Note 1)	$R_{\theta JA}$	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	O°	

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

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

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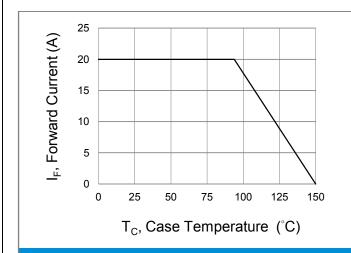
April 20,2016-REV.01 APPROVAL SHEET ISSUE DATE: 1/22/2019



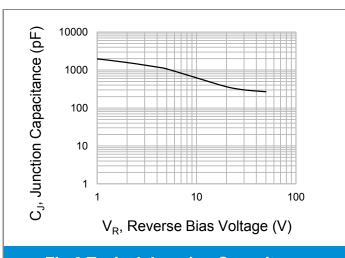
## **SVT2080UA**

### Electrical Characteristics (T<sub>A</sub>=25 °C unless otherwise noted)

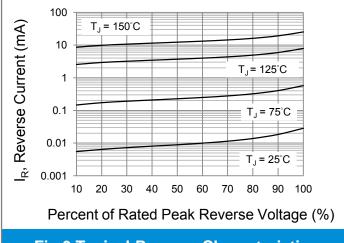
PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	$V_{BR}$	I <sub>R</sub> =0.5mA	T <sub>J</sub> =25°C	80	-	ı	V
	V <sub>F</sub>	I <sub>F</sub> =1A	TJ=25°C	-	0.35	-	V
		I <sub>F</sub> =5A		-	0.44	-	
Instantaneous forward voltage		I <sub>F</sub> =20A		-	-	0.66	
		I <sub>F</sub> =1A	T <sub>J</sub> =125°C	-	0.24	-	V
		I <sub>F</sub> =5A		-	0.36	-	
Barrana	I <sub>R</sub>	V <sub>R</sub> =64V	TJ=25°C	-	15	-	μΑ
Reverse current		V <sub>R</sub> =80V	T <sub>J</sub> =25°C	-	-	150	μА
			T <sub>J</sub> =125°C	-	9	-	mA



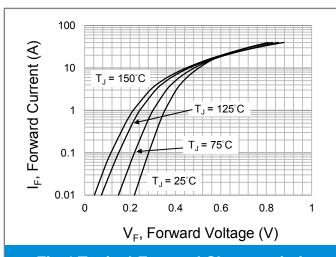
**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 



**Fig.3 Typical Reverse Characteristics** 



**Fig.4 Typical Forward Characteristics** 

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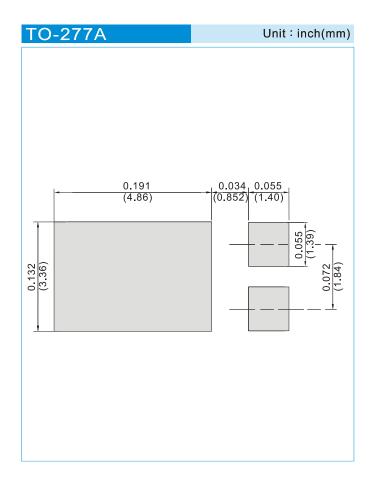


# **SVT2080UA**

### **Part No Packing Code Version**

Part No Packing Code	Package Type	Packing Type	Marking	Version	
SVT2080UA_R2_00001	TO-277A	5K pcs / 13" reel	SVT2080U	Halogen free	

### **Mounting Pad Layout**



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