CONDUCTOR		
SVT20100UA EXTREME LOW VF SCHOTTKY BARRIER R	ECTIFIER	
Voltage100 VCurrent20 A	TO-277A	Unit: inch(mm)
 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) 	0.046(1.15) 0.041(1.05) 0.041(1.05) 0.041(1.05) 0.041(1.05) 0.041(1.05) 0.041(1.05) 0.041(1.05)	215(5.45) 208(5.30) 265(3.0) 252(6.40) 0.013(0.33) 0.007(0.20) 0.039(0.99)
Mechanical Data	0.124(3.15)	<u>↓</u> 0.031(0.80)
 Case: TO-277A package Terminals: solder plated, solderable per MIL-STD-750,Method 2026 Weight: 0.003 ounces, 0.0855 grams. 	- <u>0.144(</u> - <u>0.182(4</u> - <u>0.165(4</u> ,	0.029(0.75) 60)

Maximum Ratings And Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT	
Maximum repetitive peak reverse voltage		Vrrm	100	V	
Maximum rms voltage		Vrms	70	V	
Maximum dc blocking voltage		VR	100	V	
Maximum average forward rectified current		IF(AV)	20	А	
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		Ігѕм	250	A	
- · · · · · · ·	(Note 1)	$R_{ extsf{ heta}JA}$	110	°C/W	
Typical thermal resistance	(Note 2)	$R_{ ext{ heta}JC}$	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

(TOP VIEW)



SVT20100UA

Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	TJ=25°C	100	-	-	V
Instantaneous forward voltage	V _F	I _F =1A	TJ=25°C	-	0.36	-	V
		I _F =5A		-	0.44	-	
		I _F =20A		-	0.61	0.66	
		I _F =1A	TJ=125°C	-	0.23	-	V
		I _F =5A		-	0.36	-	
Reverse current	I _R	V _R =70V	TJ=25°C	-	25	-	μA
		V _R =100V	TJ=25°C	-	-	80	μA
			TJ=125°C	-	20	-	mA

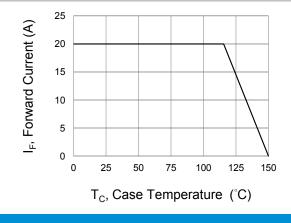


Fig.1 Forward Current Derating Curve

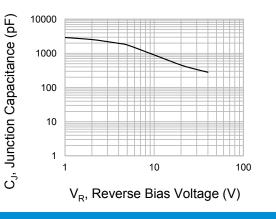
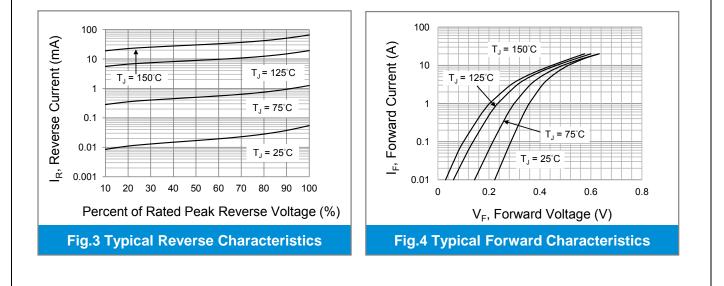


Fig.2 Typical Junction Capacitance





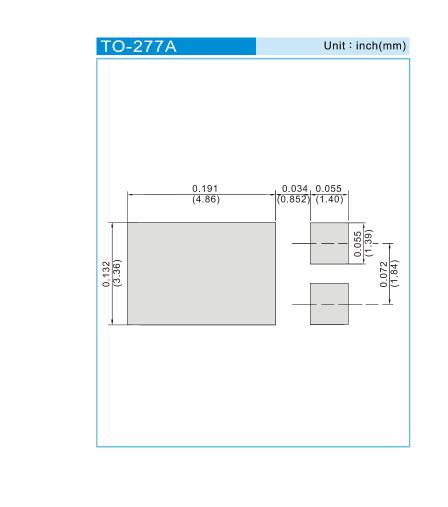


SVT20100UA

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SVT20100UA_R2_00001	TO-277A	5K pcs / 13" reel	SVT20100U	Halogen free

Mounting Pad Layout







SVT20100UA

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