SVT10100U EXTREME LOW VF SCHOTTKY BARR	IER RECTIFIER
Voltage 100 V Current 10	DA Unit : inch(mm)
<ul> <li>Features</li> <li>Ideal for automated placement</li> <li>Extreme low forward voltage drop, low power loss</li> <li>High efficiency operation</li> <li>Low thermal resistance</li> <li>Ultra thin profile package for space constrained utilization</li> <li>Easy pick and place package suitable for automated handling</li> <li>Lead free in compliance with EU RoHS 2011/65/EU directive</li> <li>Green molding compound as per IEC61249 Std (Halogen Free)</li> <li>Mechanical Data</li> <li>Case: TO-277 package</li> <li>Terminals: solder plated, solderable per MIL-STD-750,Method 202</li> <li>Weight: 0.00379 ounces, 0.1073 grams.</li> <li>Marking: Part number</li> </ul>	6 6

Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=25<sup>°</sup>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)	10	А		
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		lfsm	150	A	
Typical thermal resistance	(Note 1)	R <sub>0JA</sub>	110	°C/W	
	(Note 2)	$R_{\theta JC}$	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.

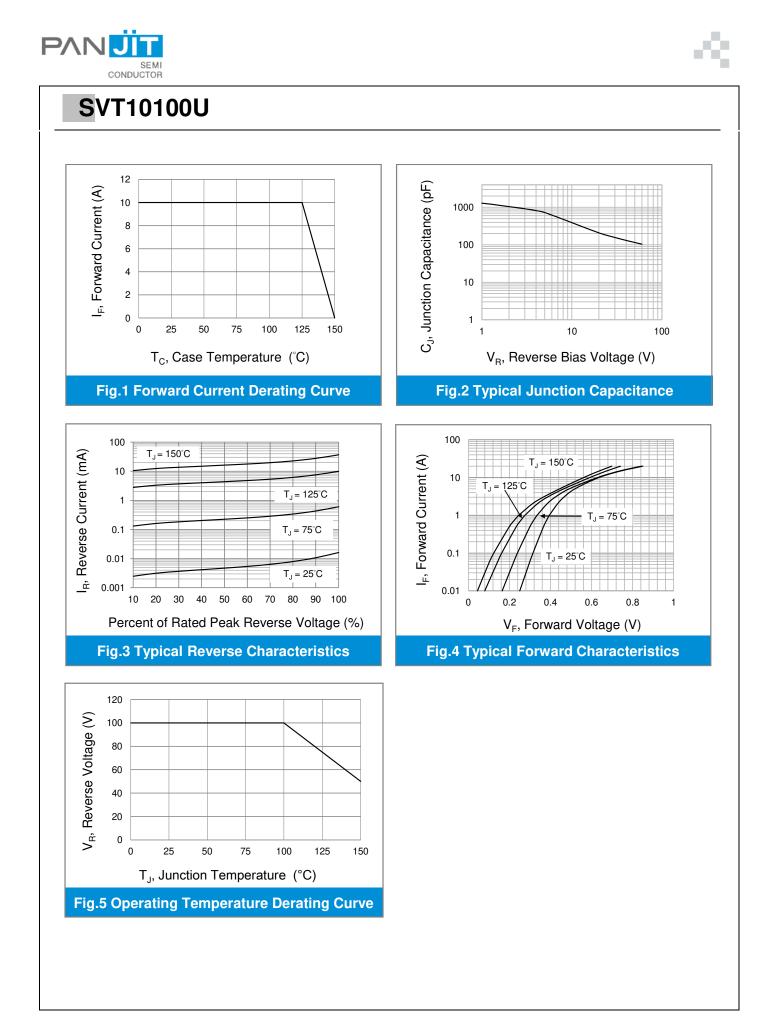
2. Mounted on a 10cm\*10cm\*1mm copper pad area



## SVT10100U

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

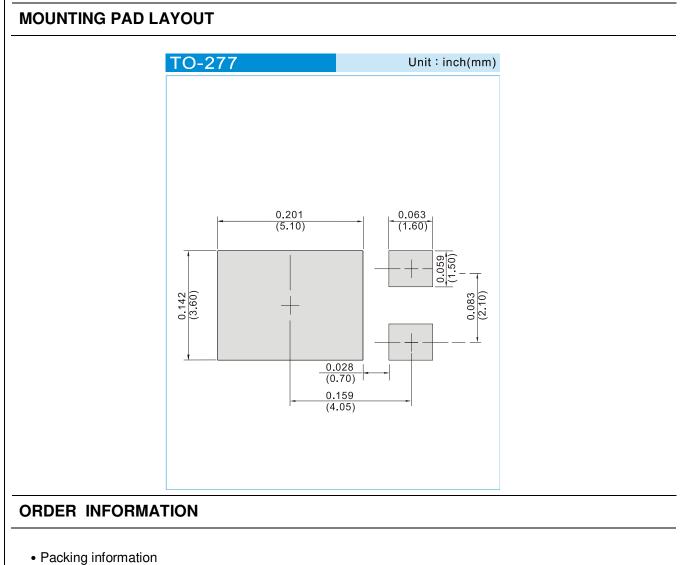
PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V <sub>BR</sub>	I <sub>R</sub> =0.5mA	TJ=25°C	100	-	-	V
Instantaneous forward voltage		I <sub>F</sub> =1A		-	0.39	-	
		I <sub>F</sub> =5A	TJ=25°C	-	0.52	-	V
	V <sub>F</sub>	I <sub>F</sub> =10A		-	0.63	0.67	
		I <sub>F</sub> =1A	TJ=125°C	-	0.28	-	v
		I <sub>F</sub> =5A		-	0.46	-	
Reverse current I <sub>R</sub>	V <sub>R</sub> =70V	TJ=25°C	-	10	-	μA	
	V 100V	TJ=25°C	-	-	60	μ <b>A</b>	
		V <sub>R</sub> =100V	TJ=125°C	-	10	-	mA





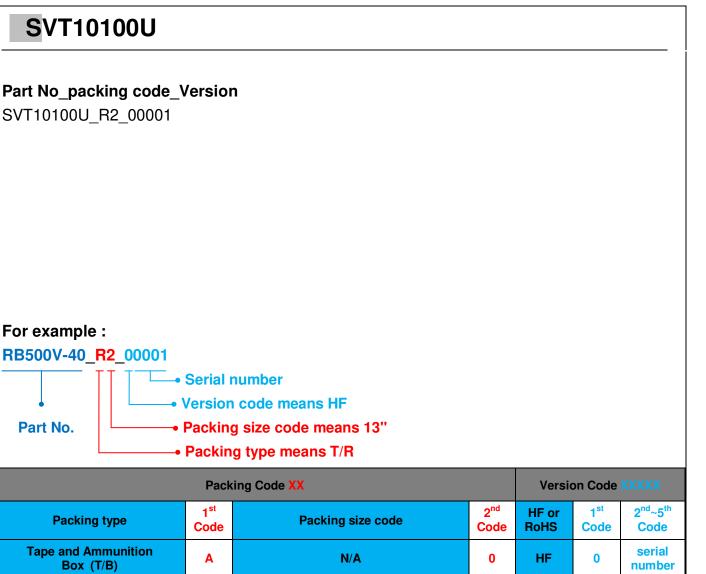


## SVT10100U



T/R – 5K per 13" plastic Reel





7"

13"

26mm

52mm

PANASERT T/B

**CATHODE UP (PBCU)** 

PANASERT T/B

CATHODE DOWN (PBCD)

1

2

Χ

Υ

U

D

**RoHS** 

1

Tape and Reel (T/R)

Bulk Packing (B/P)

Tube Packing (T/P)

**Tape and Reel (Right Oriented)** 

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

R

В

т

S

L

F

serial

number





## SVT10100U

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