SVT10100UB EXTREME LOW VF SCHOTTKY BARRIER RE	
Voltage 100 V Current 10 A Features	TO-277B Unit : inch(mm)
 Ideal for automated placement Extreme low forward voltage drop, low power loss High efficiency operation Low thermal resistance 	0.172(4.35)
 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) 	0.243(6.15) 0.238(6.05) 0.238(6.05) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238(7.15) 0.238
 Mechanical Data Case: TO-277B package Terminals: solder plated, solderable per MIL-STD-750,Method 2026 	0.0052(1.30) 0.0052(1.30) 0.0083(2.10) 0.083(2.10)
 Weight: 0.0038 ounces, 0.1088 grams. Marking: Part number 	(R) (R) (R) (R) (R) (R) (R) (R)

Maximum Ratings And Electrical Characteristics (T_A=25°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		IFSM	150	A	
	(Note 1)	$R_{ extsf{ heta}JA}$	110	°C/W	
Typical thermal resistance	(Note 2)	$R_{\theta JC}$	3		
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Тѕтс	-55 to +150	°C	

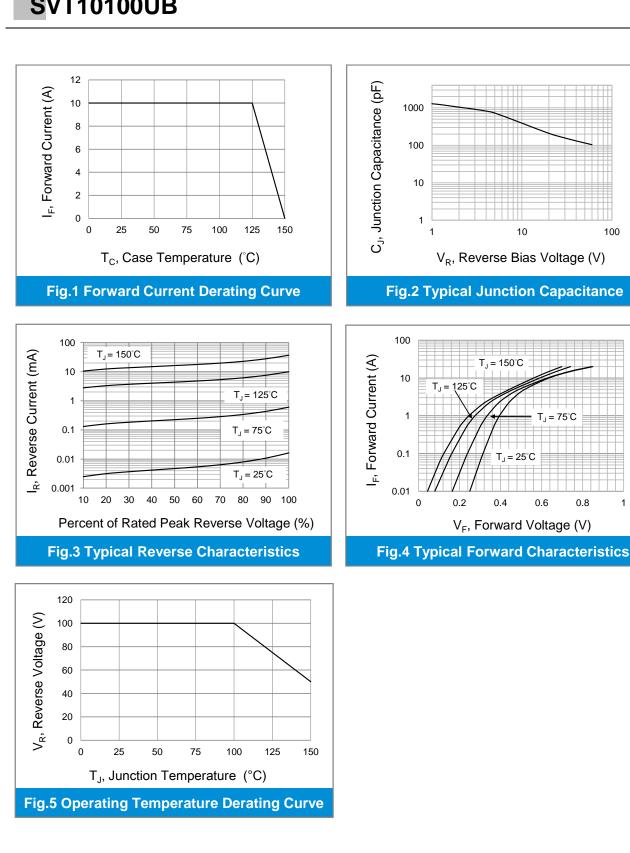
Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

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



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	-	0.39	-	V
		I _F =5A		-	0.52	-	
		I _F =10A		-	0.63	0.67	
		I _F =1A	TJ=125°C	-	0.28	-	V
		I _F =5A		-	0.46	-	
Reverse current	I _R	V _R =70V	TJ=25°C	-	10	-	μA
		V _R =100V	TJ=25°C	-	-	60	μA
			TJ=125°C	-	10	-	mA

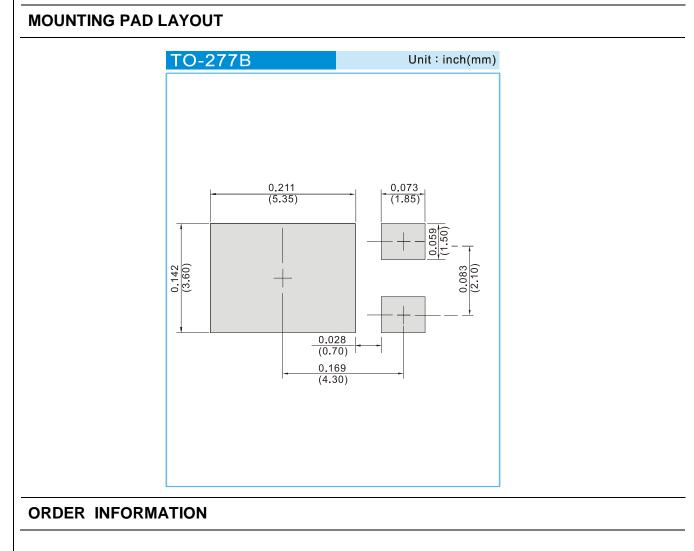


SEMI CONDUCTOR

PANJ







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



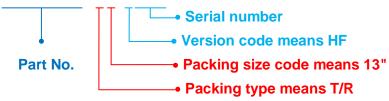


Part No_packing code_Version

SVT10100UB_R2_00001

For example :

RB500V-40_R2_00001



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)	Α	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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