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SV1580VB ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER TO-277B Unit : inch(mm) Voltage 80 V Current 15 A Features 35) • Ideal for automated placement • Ultra low forward voltage drop, low power loss High efficiency operation • .20) • Low thermal resistance 0.243(6.15) 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 0.282(7.15) . 0.269(6.85) Green molding compound as per IEC61249 Std. . (Halogen Free) • 0.085(2.15) 0.076(1.95) 9 <u>(</u>) Mechanical Data 0.136(3.45) 128(3.25) • Case: TO-277B package • Terminals: solder plated, solderable per MIL-STD-750, Method 2026 • Weight: 0.0038 ounces, 0.1088 grams. 0.193(4.90) 0.053(1.35) 0.181(4.60) 0.045(1.15) Marking: Part number

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		
Storage temperature range	Vr	80	V		
Maximum average forward rectified current		lf(AV)	15	А	
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		Ігѕм	250	А	
Typical thermal resistance	(Note 1)	Rojc	3.5	°C/W	
	(Note 2)	Roja	110		
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Тѕтс	-55 to +150	°C	

Note : 1. Mounted on a 10cm*10cm*0.5mm copper pad area.

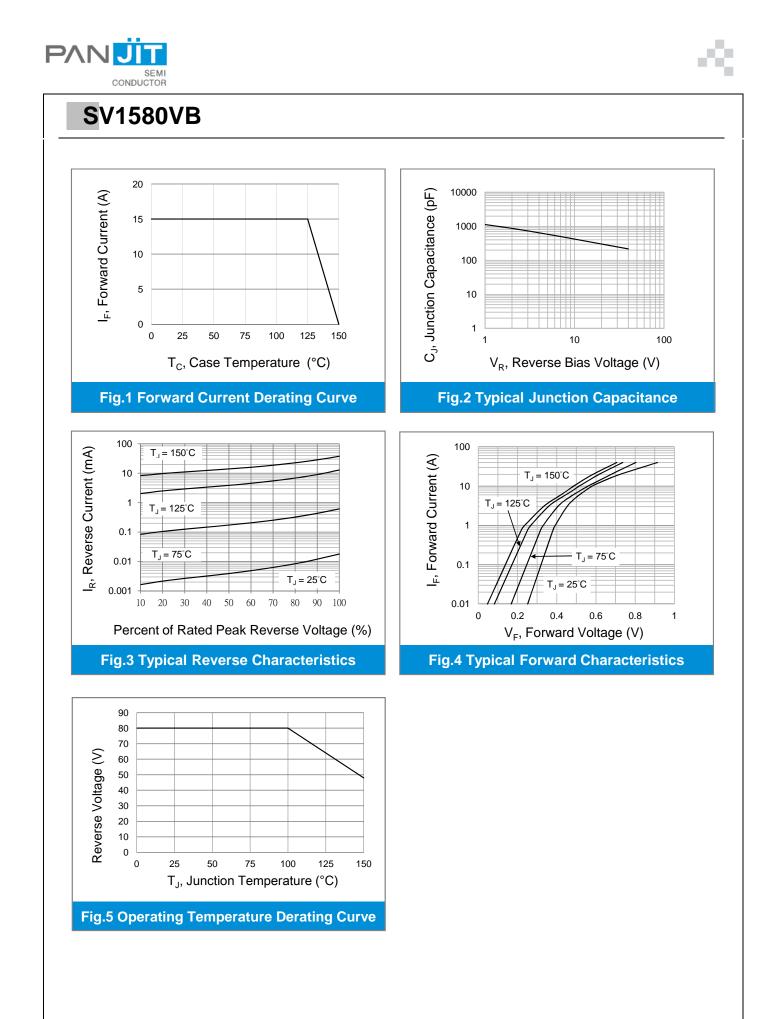
2. Mounted on a FR4 PCB, single-sided copper, mini pad.



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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	80	-	-	V
Instantaneous forward voltage	V _F	I _F =1A	TJ=25°C	-	0.39	-	V
		I _F =5A		-	0.5	-	
		I _F =10A		-	0.58	-	
		I _F =15A		-	0.67	0.72	
		I _F =1A	TJ=125°C	-	0.27	-	V
		I _F =5A		-	0.42	-	
		I _F =10A		-	0.52	-	
Reverse current I _R		V _R =56V	TJ=25°C	-	7	-	μA
	I _R	V _R =80V	TJ=25°C	-	-	100	μA
			TJ=125°C	-	13	-	mA





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MOUNTING PAD LAYOUT TO-277B Unit : inch(mm) 0.211 (5.35) 0.073 0.059 0.142 (3.60) 0.083 (2.10) 0.028 (0.70) 0.169 (4.30) ORDER INFORMATION

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





CATHODE DOWN (PBCD)

F

D





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