

## Power Schottky Rectifier - 20Amp 80Volt

**Features**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

**Mechanical data**

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202,method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any

**Maximum ratings and Electrical characteristics**

Parameters		S20V80TB	UNIT		
Maximum Recurrent Peak Reverse Voltage		80	V		
Maximum RMS Voltage		56	V		
Maximum DC Blocking Voltage		80	V		
Maximum Average Forward Rectified Current		20	A		
Peak Forward Surge Current		300	A		
Maximum Instantaneous Forward Voltage	Tc = 25°C	IF = 5A	TYP. 0.45	MAX. -	V
		IF = 10A	0.50	-	
		IF = 20A	0.60	0.65	
	Tc = 125°C	IF = 5A	TYP. 0.40	MAX. -	
		IF = 10A	0.45	-	
		IF = 20A	0.55	0.60	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	TYP. 0.1	MAX. 0.5	mA	
	Tc = 125°C	50	100		
Typical Junction Capacitance		800	pF		
Typical Thermal Resistance RθJA (Note 1)		35	°C/W		
Operating and Storage Temperature Range		-50 to +150	°C		

Note : 1.Mounted on P.C.B with copper pad size 10mm x 10mm, thickness 0.2mm

December 2018 / Rev.7.2

# S20V80TB

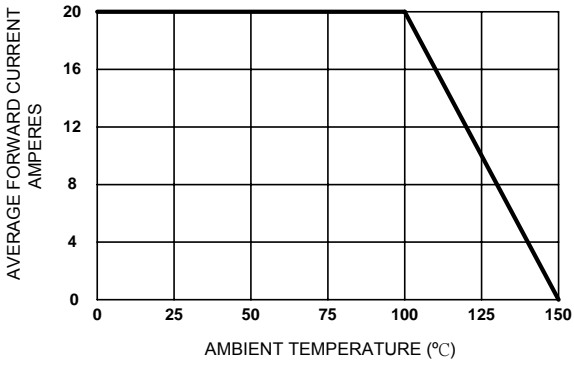


Figure 1. Forward Current Derating Curve

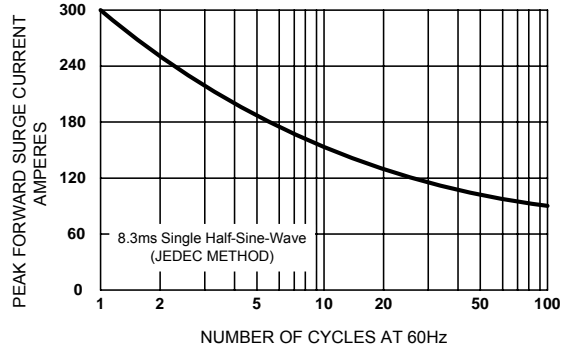


Figure 2. Maximum Non-repetitive Surge Current

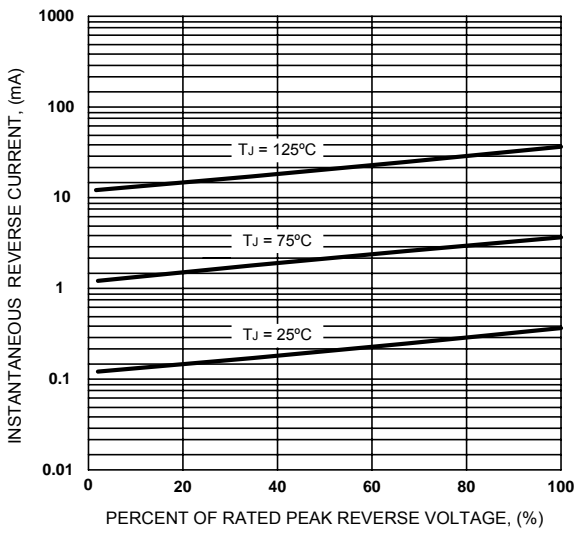


Figure 3. Typical Reverse Characteristics

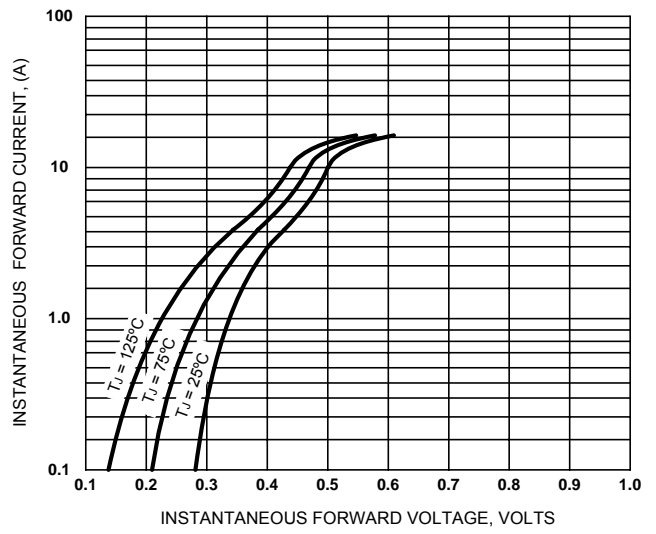


Figure 4. Typical Forward Characteristics

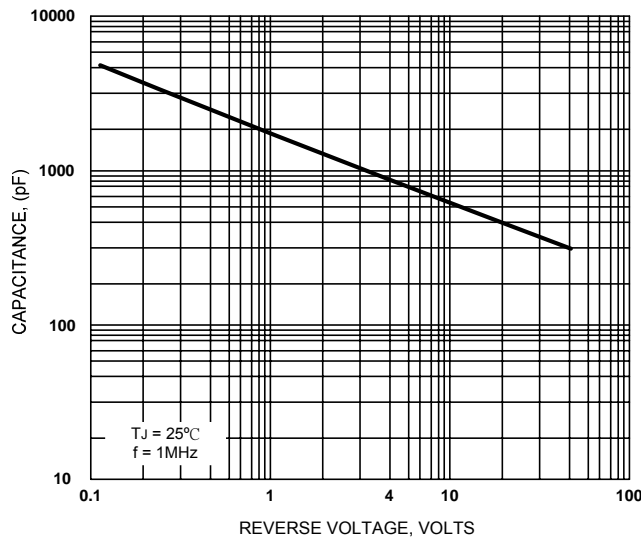
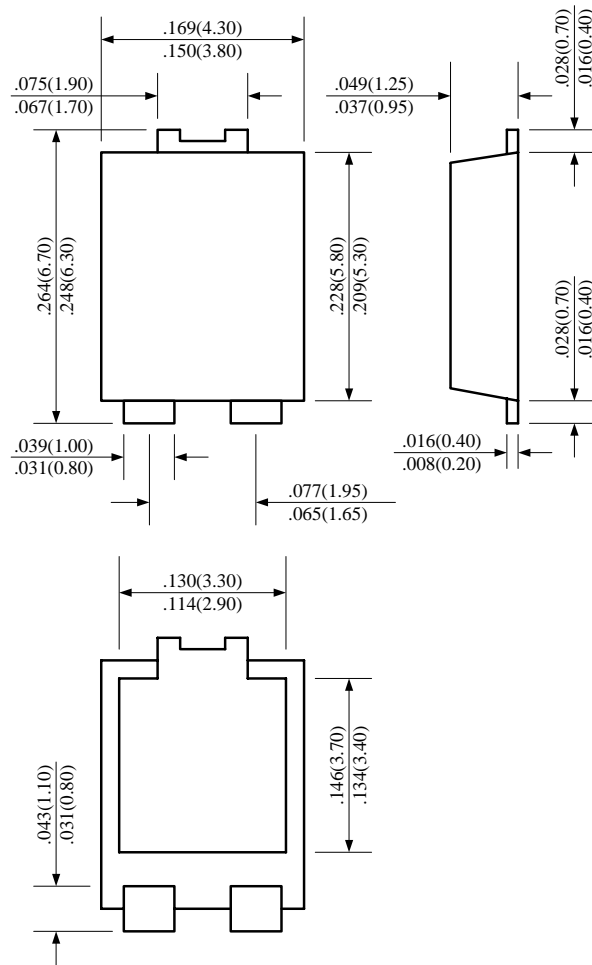


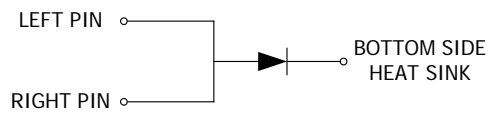
Figure 5. Typical Junction Capacitance

# S20V80TB

T0-277



UNIT : inch(mm)



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