

## Power Schottky Rectifier - 12Amp 40Volt

**Features**

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

**Mechanical data**

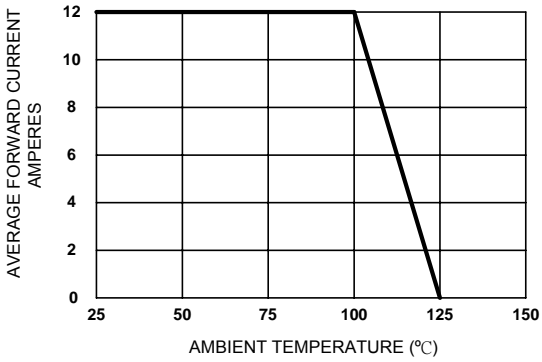
- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202,method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any

**Maximum ratings and Electrical characteristics**

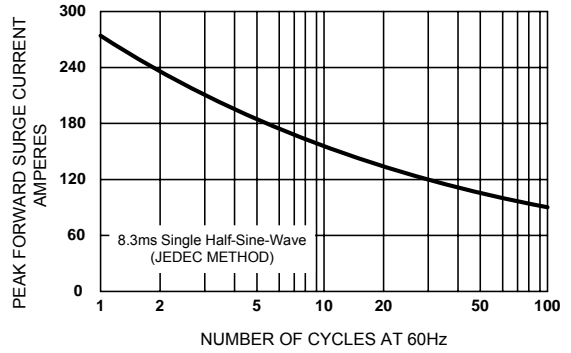
Parameters		STVBSAD	UNIT	
Maximum Recurrent Peak Reverse Voltage		40	V	
Maximum RMS Voltage		28	V	
Maximum DC Blocking Voltage		40	V	
Maximum Average Forward Rectified Current		12	A	
Peak Forward Surge Current		275	A	
Maximum Instantaneous Forward Voltage	Tc = 25°C	If = 5A	0.40	V
		If = 10A	0.48	
		If = 12A	0.50	
	Tc = 125°C	If = 5A	0.30	
		If = 10A	0.38	
		If = 12A	0.40	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.5	mA	
	Tc = 100°C	100		
Typical Junction Capacitance		350	pF	
Typical Thermal Resistance R <sub>θJA</sub> (Note 1)		25	°C/W	
Operating Temperature Range		-50 to +125	°C	
Storage Temperature Range		-50 to +175	°C	

Note : 1. Mounted on P.C.B with copper pad size 16mm x 16mm, vertical P.C.B 9.5mm lead lengths

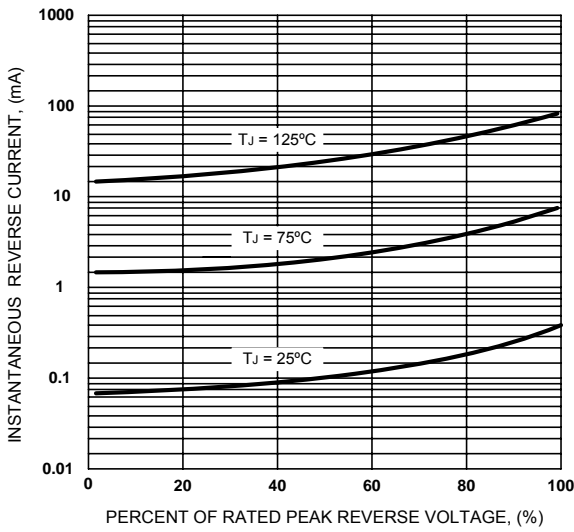
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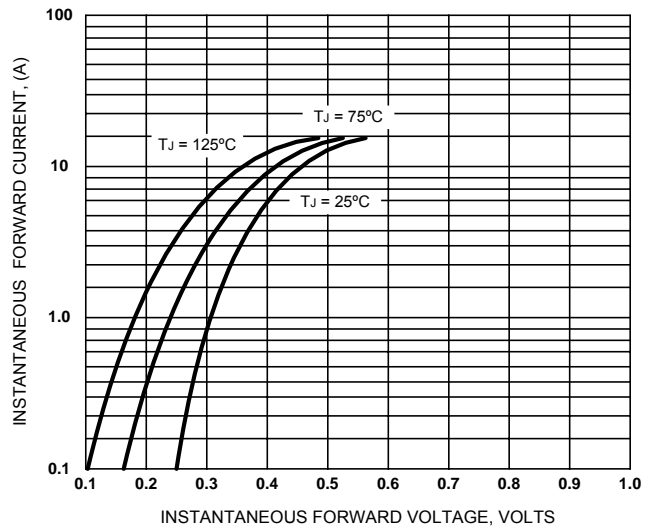
**Figure 1. Forward Current Derating Curve**



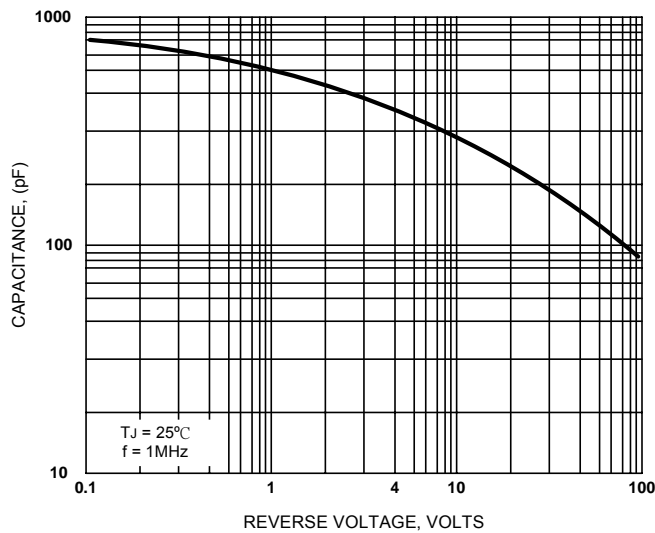
**Figure 2. Maximum Non-repetitive Surge Current**



**Figure 3. Typical Reverse Characteristics**



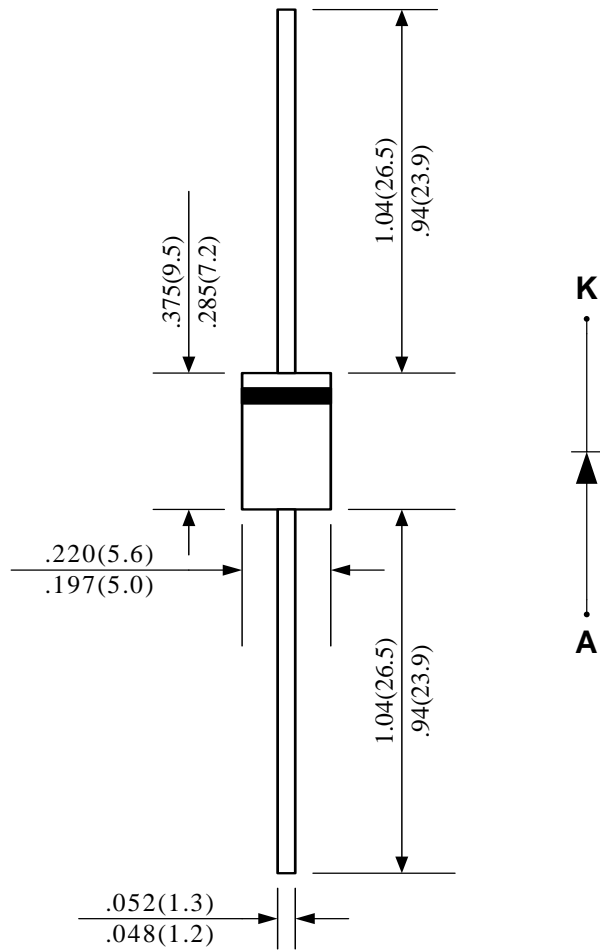
**Figure 4. Typical Forward Characteristics**



**Figure 5. Typical Junction Capacitance**

STVBSAD

D0-27 / D0-201AD



UNIT : inch(mm)