

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 = 125°C	100		
Typical Junction Capacitance		350	pF	
Typical Thermal Resistance RθJA		25	°C/W	
Operating Temperature Range		-50 to +125	°C	
Storage Temperature Range		-50 to +175	°C	

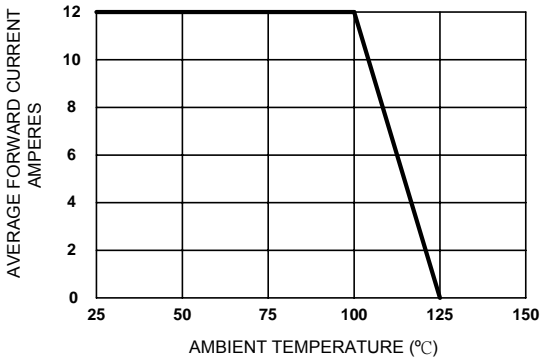


Figure 1. Forward Current Derating Curve

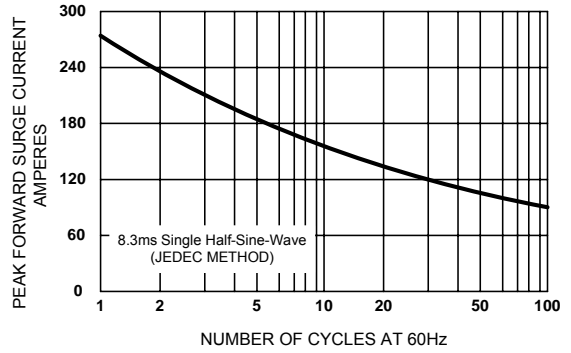


Figure 2. Maximum Non-repetitive Surge Current

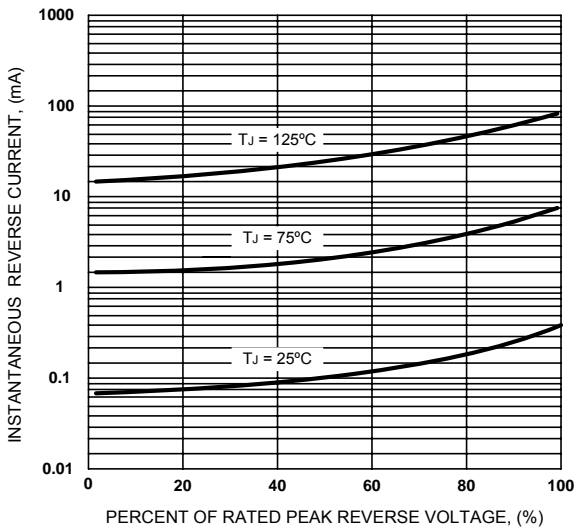


Figure 3. Typical Reverse Characteristics

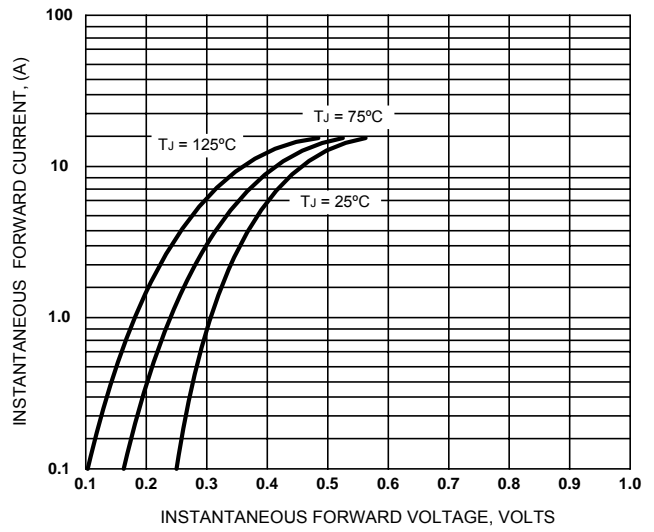


Figure 4. Typical Forward Characteristics

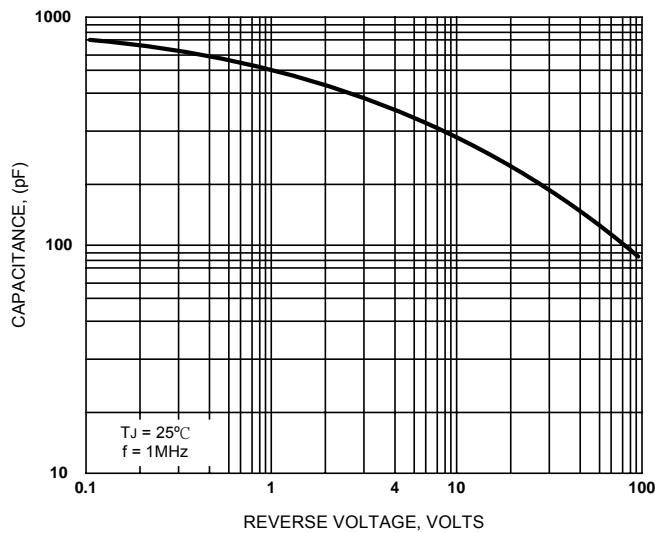


Figure 5. Typical Junction Capacitance

STVBSAD

D0-27 / D0-201AD

