



Schottky Barrier Rectifier
Reverse Voltage 200 Volts Forward Current 3.0 Amperes

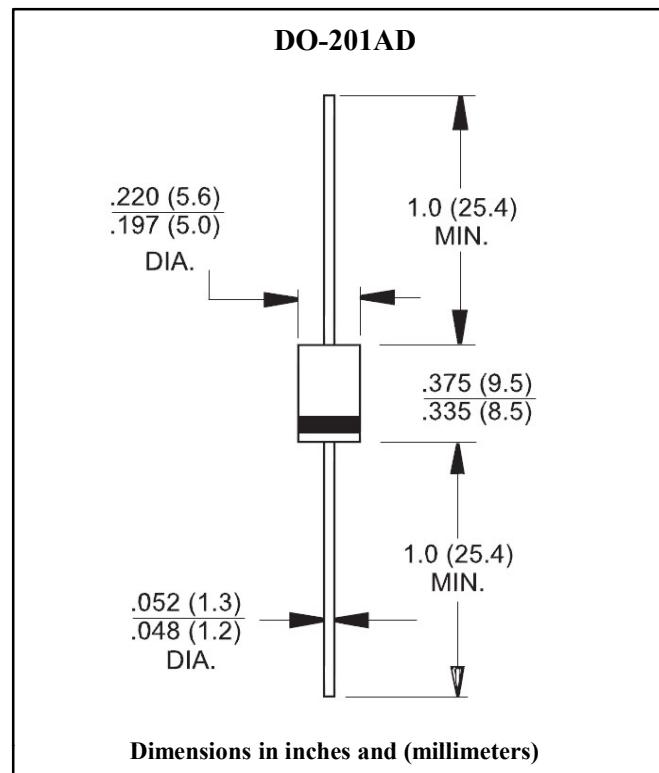
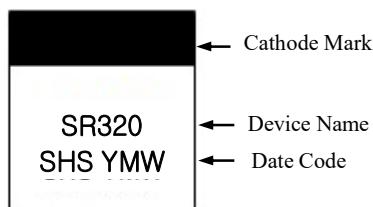
Features

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

Mechanical Data

- Case : Molded plastic
- Epoxy : UL 94V-O rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes cathode end
- High temperature soldering guaranteed : 260°C/10 seconds /0.375",(9.5mm) lead lengths at 5lbs.,(2.3kg) tension
- Weight : 1.1grams

Marking



Maximum Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Single phase half wave 60 Hz, resistive or inductive load

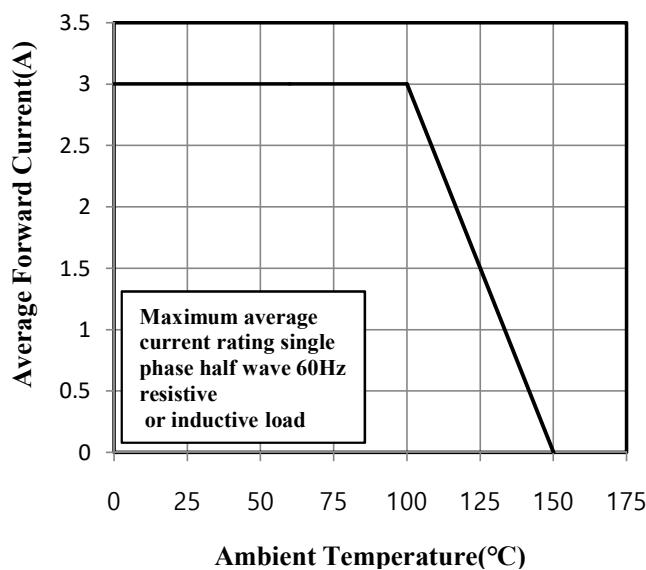
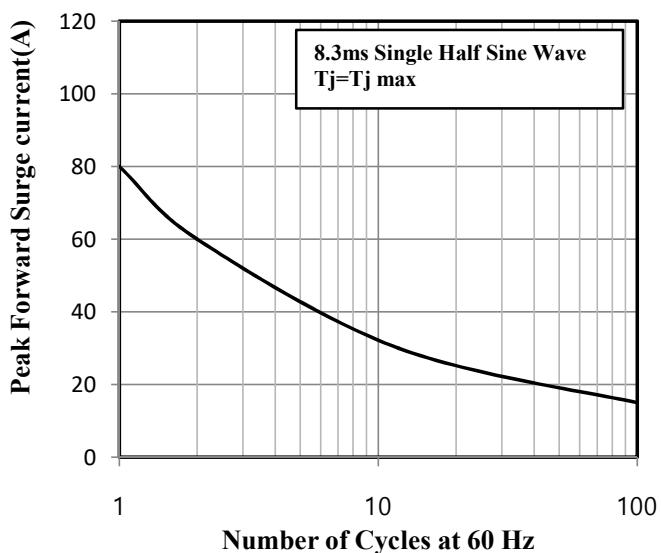
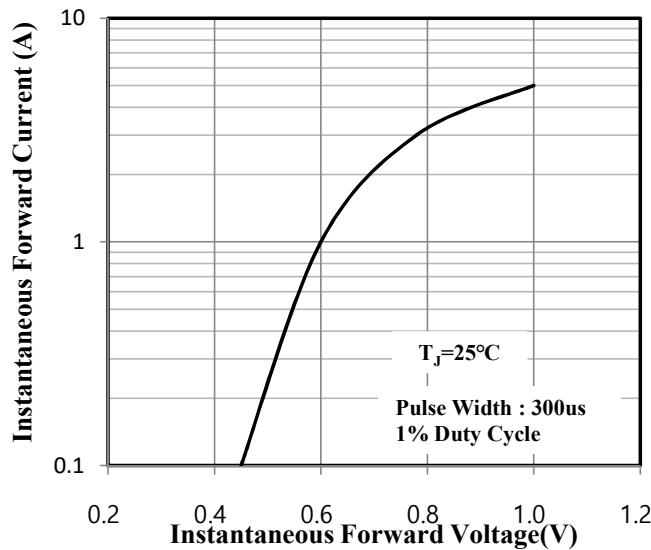
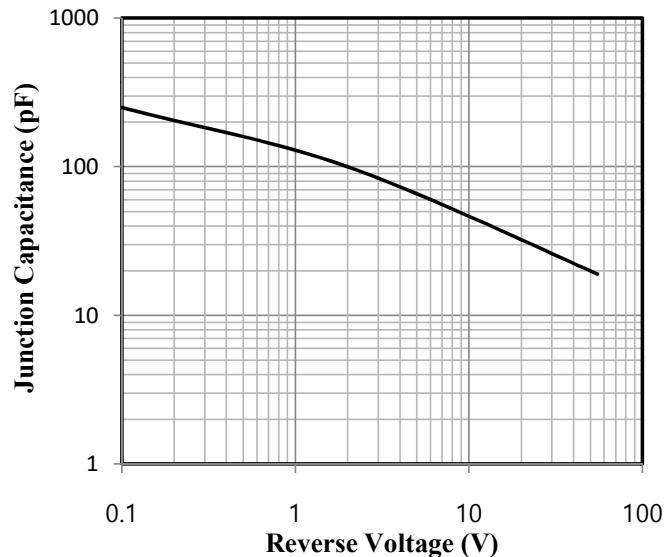
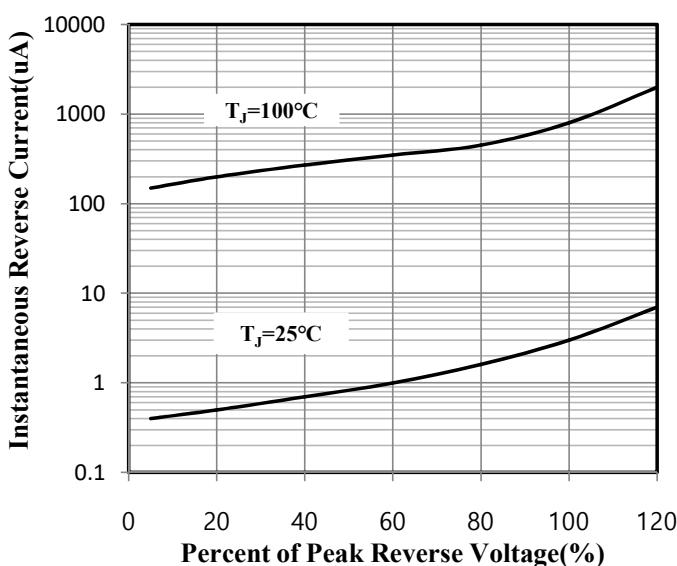
For capacitive load, derate current by 20%

Parameter	Symbol	Rated Value	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	V	
Maximum RMS Voltage	V _{RMS}	140	V	
Maximum DC Blocking Voltage	V _{DC}	200	V	
Maximum Average Forward Rectified Current at 9.5 mm Lead Length (Fig. 1)	I _{F(AV)}	3.0	A	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (MIL-STD-750D 4066 Method)	I _{FSM}	80	A	
Maximum Instantaneous Forward Voltage at 3.0A	V _F	0.95	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1	mA	T _a =25°C
		2.0	mA	T _a =125°C
Typical Junction Capacitance	C _J	72	pF	Note 1
Typical Thermal Resistance	R _{th(j-a)}	50	°C/W	Note 2
Operation Junction Temperature Range	T _J	-55 to +150	°C	
Storage Temperature Range	T _{STG}	-55 to +150	°C	

Note 1. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

Note 2. Thermal resistance from junction to ambient

Ratings and Characteristics Curves ($T_a=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

Fig.3 Typical Instantaneous Forward Characteristics

Fig.4 Typical Junction Capacitance

Fig.5 Typical Reverse Characteristics

Fig.6 Typical Transient Thermal Characteristics
