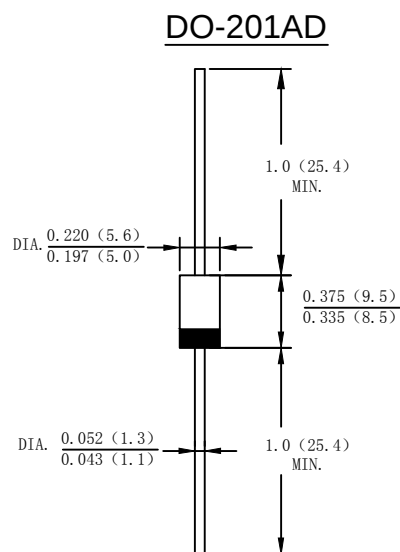


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 utilizing Flame Retardant Epoxy Molding Compound.
- Guard ring for overvoltage protection
- High current capability, low forward voltage drop
- Low power loss, high efficiency
- High surge capability

Mechanical Data

- Case: Moeded plastic DO-201AD
- Terminals: Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band dentes cathode end
- Mounting Position: Any
- Making: Type Number
- Lead Free: For Rohs/Lead Free Version



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SB 320U	SB 330U	SB 340U	SB 350U	SB 360U	SB 380U	SB 3100U	SB 3150U	SB 3200U	SB 3250U	Unit	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	250	V	
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	175	V	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	250	V	
Average Rectified Output Current (Note 1) @T _A =75°C	I _O	3.0										A	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	90										A	
Forward Voltage @IF=3.0A	V _{FM}	0.50			0.67		0.82		0.90		0.92	V	
Peak Reverse Current @T _A =25°C	I _R	0.1					0.05					mA	
At Rated DC Blocking Voltage @T _A =100°C		10.0					5.0						
Typical Junction Capacitance (Note 2)	C _J	250			160								pF
Typical Thermal Resistance Junction to Ambient(Note 1)	R _{θJA}	40										°C/W	
Operating Temperature Range	T _J	-55 to + 150										°C	
Storage Temperature Range	T _{STG}	-55 to + 150										°C	

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

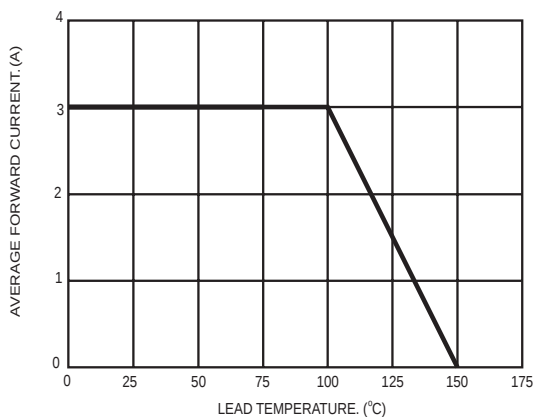


FIG.2- TYPICAL FORWARD CHARACTERISTICS

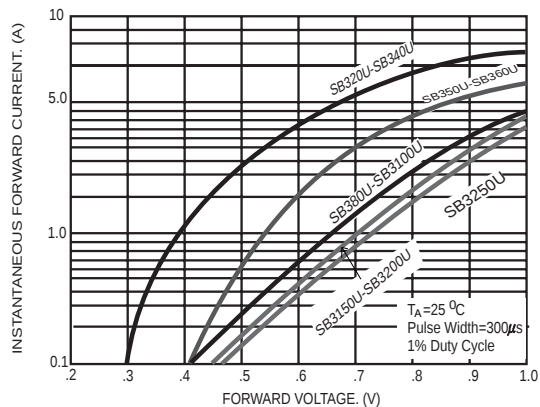


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

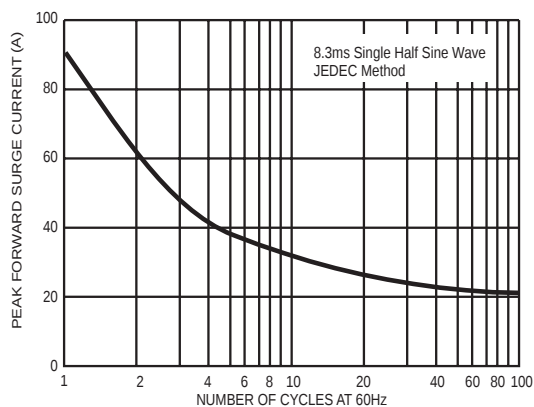


FIG.4- TYPICAL JUNCTION CAPACITANCE

