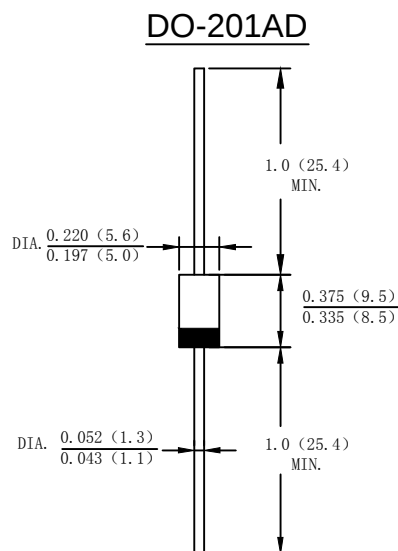


Features

- Low power loss,high efficiency.
- High current capability.
- High reliability
- High surge current capability.
- Plastic package has Underwriters Laboratory Plammability Classification 94V-0 utilizing
- Plame Retardant Epoxy Molding Compound
- For use in low voltage, high frequen inverters free wheeling and polarity protection applications

Mechanical Data

- Case: Moeded plastic DO-201AD
- Polarity: Color band dentes cathode end
- Mounting Position: Any



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	SR 820	SR 830	SR 840	SR 845	SR 850	SR 860	SR 880	SR 8100	SR 8150	SR 8200	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	21	28	31	35	42	56	80	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	50	60	80	100	150	200	V
Average Rectified Output Current (Note 1) @T _A =95°C	I _O	8.0										A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150										A
Forward Voltage @IF=8.0A	V _{FM}	0.55				0.70		0.85		0.92		V
Peak Reverse Current @T _A =25°C	I _R	0.3						0.05				mA
At Rated DC Blocking Voltage @T _A =100°C		10						5				
Typical Junction Capacitance	C _J	450										pF
Typical Thermal Resistance Junction to Ambient(Note 2)	R _{θJA}	75.0										°C/W
Operating Temperature Range	T _J	-55 to + 150										°C
Storage Temperature Range	T _{STG}	-55 to + 150										°C

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

2.P.C.B.mounted with 0.2×0.2" (5.0×5.0mm) copper pad areas

Fig. 1-FORWARD CURRENT DERATING CURVE

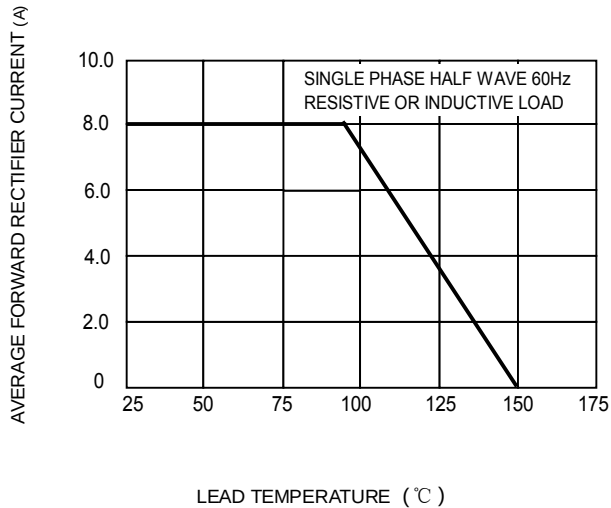


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

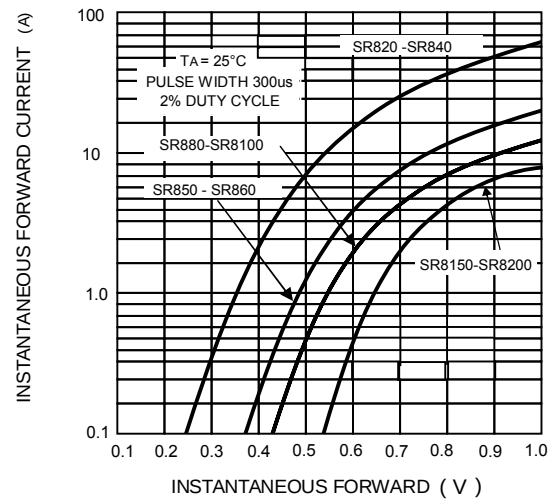


Fig. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

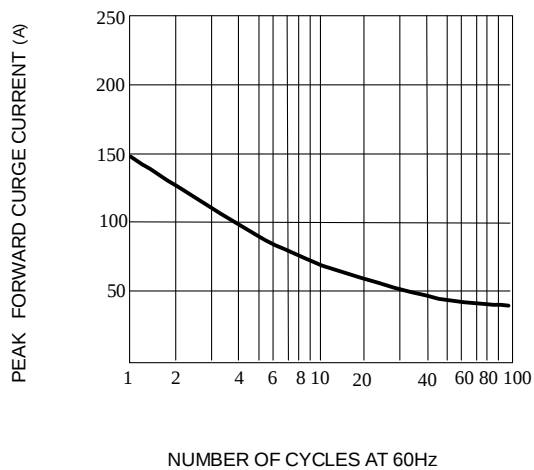


Fig. 4-TYPICAL REVERSE CHARACTERISTICS

