

DO-201AD PACKAGE

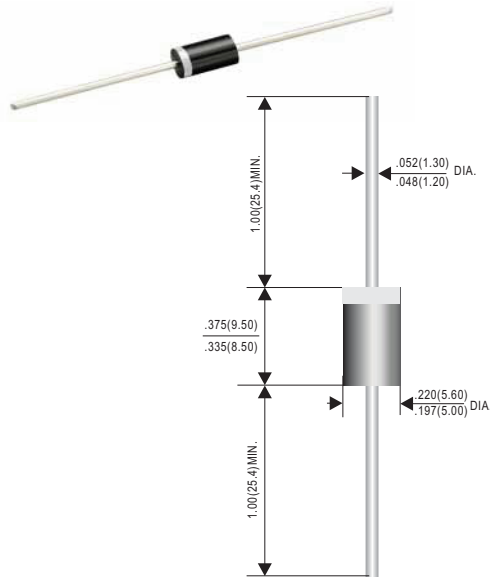


FEATURES

- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge capability
- * RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 1.18 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

RATINGS		SYMBOL	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	UNIT
Marking Code			SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at TL		I _O	3.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	80									Amps
Typical Thermal Resistance (Note 1)		R _{θJA}	30									°C/W
		R _{θJC}	20									°C/W
Typical Junction Capacitance (Note 2)		C _J	200									pF
Storage Operating Temperature Range		T _J , T _{STG}	-65 to +150									°C

CHARACTERISTICS		SYMBOL	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200	UNIT
Maximum Instantaneous Forward Voltage at 3.0A DC (Note 3)		V _F	0.55		0.75		0.85		0.92			Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage		I _R	@TA=25°C		0.5							mAmps
			@TA=100°C		10							

- NOTES :1. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.
Thermal Resistance (Junction to Case).
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. Measured at Pulse Width 300µs, Duty Cycle 2%.

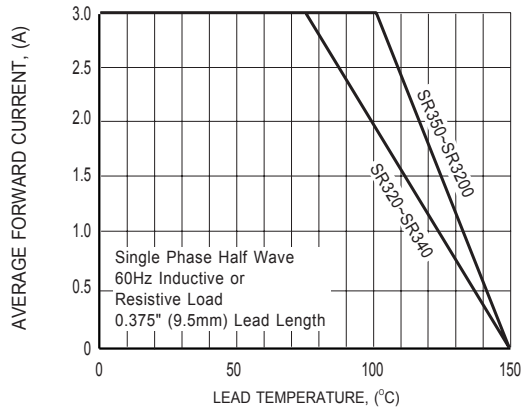


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

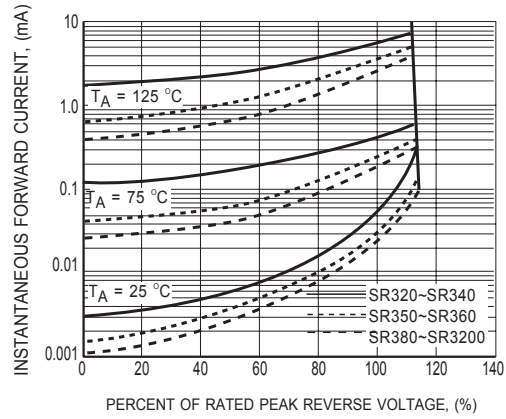


FIG.2 TYPICAL REVERSE CHARACTERISTICS

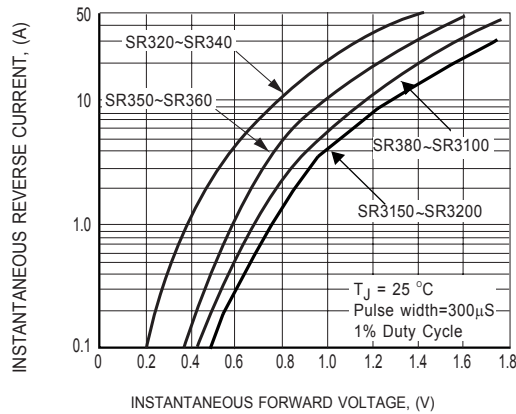


FIG.3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

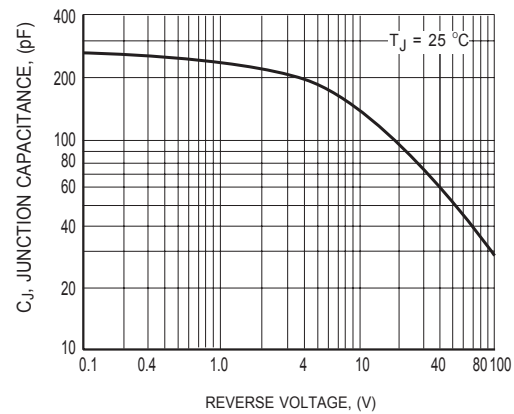


FIG.4 TYPICAL JUNCTION CAPACITANCE

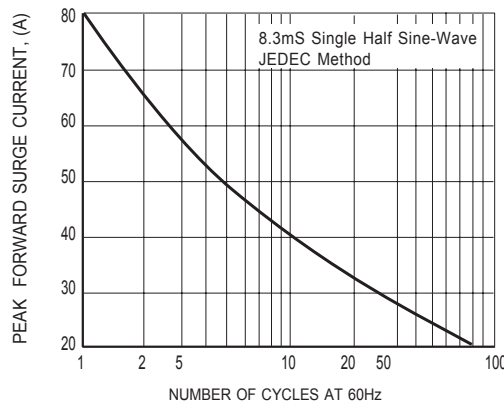


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT