

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High forward current capability
- High surge current capability
- Construction utilizes void-free molded plastic technique
- High temperature soldering guaranteed: 260 C/10⁰seconds at terminals
- Component in accordance to RoHS 2015\863\EU
- AEC-Q101 qualified and PPAP capable

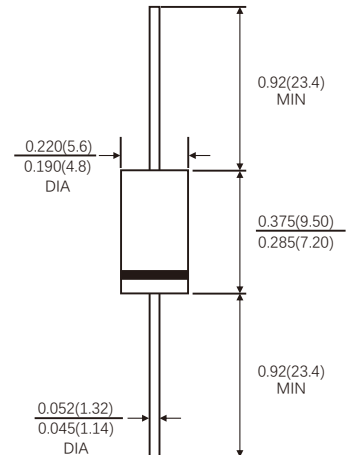
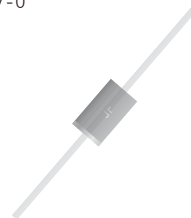
MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any
- Weight: 0.041ounce, 1.15 grams

APPLICATIONS

- For use in general purpose rectification of power supply,inverters, converters,and freewheeling diodes application.

DO-201AD



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 by 20%.)

Parameters	Symbols	Value	Unis
Maximum recurrent peak reverse voltage	V_{RRM}	1000	Volts
Maximum RMS voltage	V_{RMS}	700	Volts
Maximum DC blocking voltage	V_{DC}	1000	Volts
Maximum average forward rectified current	$I_{F(AV)}$	3.0	Amps
Peak forward surge current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	120	Amps
Maximum instantaneous forward voltage at 3.0 A	V_f	1.00	Volts
Maximum reverse current at rated DC blocking voltage	I_R	$T_A=25^{\circ}C$	5.0
		$T_A=125^{\circ}C$	100.0
Typical junction capacitance (Note 1)	C_j	26	pF
Typical Thermal Resistance,Junction-Lead (Note 2)	$R_{\theta JL}$	8	°C/W
Operating and Storage temperature range	T_j, T_{STG}	-55 to +150	°C

Note 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

2.P.C.B. mounted with 0.63" x 0.63" (16.0 mm x 16.0 mm) copper pad areas

FIG.1-FORWARD CURRENT DERATING CURVE

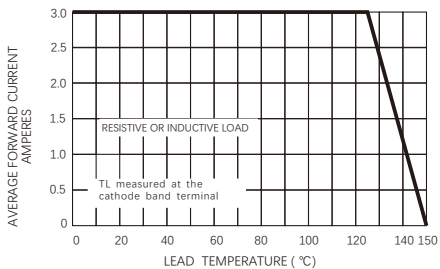


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

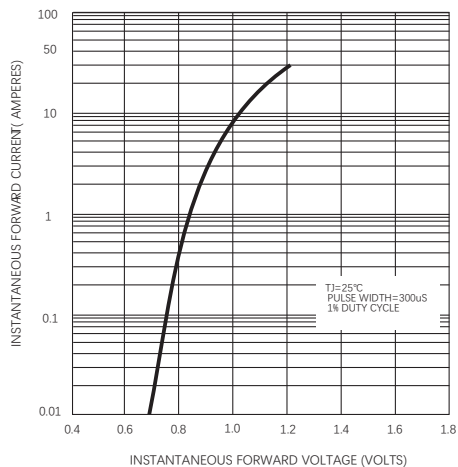


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

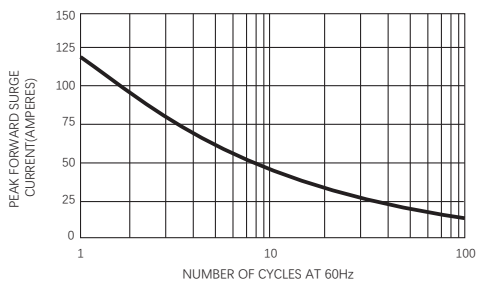
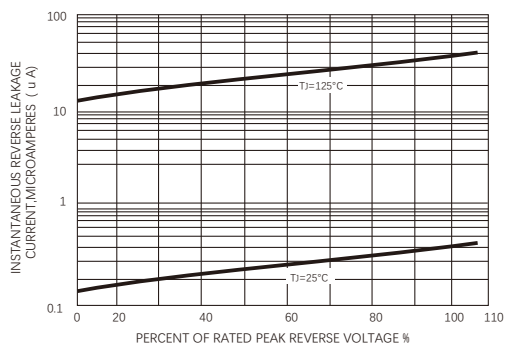


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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