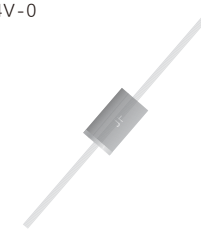
SEMICONDUCTOR

6A10G-V

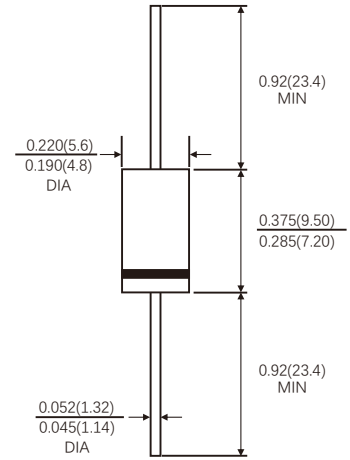
AUTOMOTIVE GENERAL PURPOSE PLASTIC RECTIFIER
Reverse Voltage - 1000 Volts
Forward Current -6.0Amperes

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/10°seconds at terminals
- Component in accordance to RoHS 2015\863\EU
- AEC-Q101 qualified and PPAP capable



DO-201AD



Dimensions in inches and (millimetrers)

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.

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		$I_{F(AV)}$	6.0	Amps
Peak forward surge current (8.3ms half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	180	Amps
Maximum instantaneous forward voltage at 6.0 A		V_F	1.05	Volts
Maximum reverse current at rated DC blocking voltage	T_A=25°C	I_R	5.0	μA
	T_A=125°C		100.0	
Typical junction capacitance (Note 1)		C_J	36	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

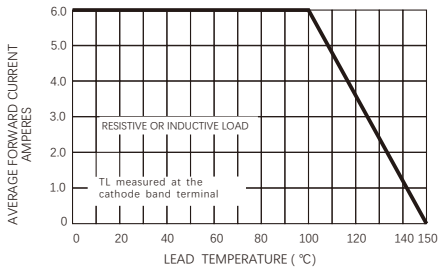


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

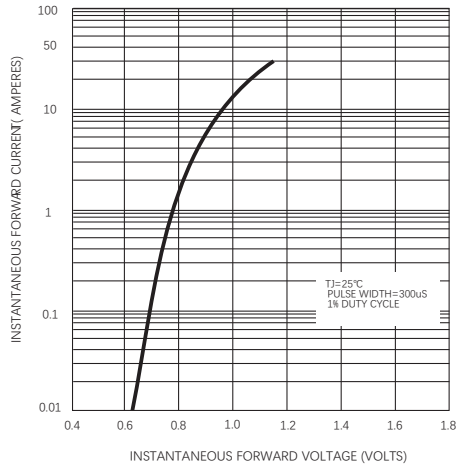


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

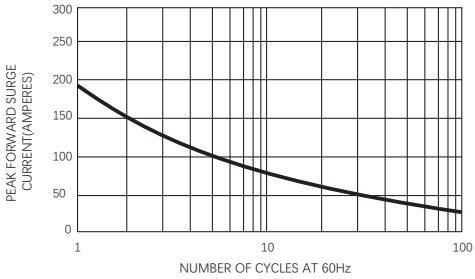
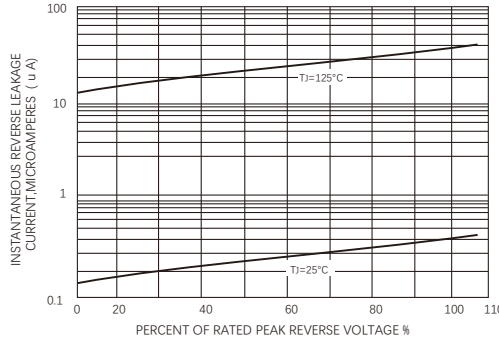


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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