General Purpose Plastic Rectifier

REVERSE VOLTAGE 50 to 1000 Volts **FORWARD CURRENT** 6.0 Ampere

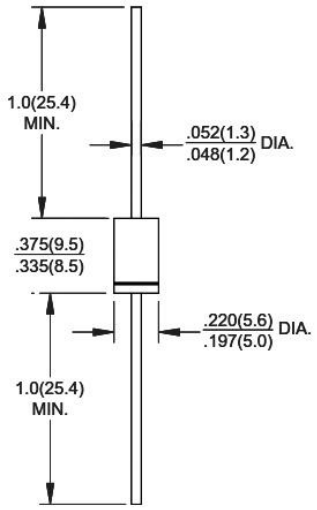
FEATURES

Low forward voltage drop
Low leakage current
High forward surge capability
High temperature soldering guaranteed
260℃/10 seconds,0.375 ” (9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

Case: Transfer molded plastic
Epoxy: UL94V-0 rate flame retardant
Polarity: Color band denotes cathode end
Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
Mounting position: Any

DO-201AD(DO-27)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		SYMBOL	6A05	6A1	6A2	6A4	6A6	6A8	6A10	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum Average Forward Rectified Current(FIG.1) 0.375 ” (9.5mm) lead length at T_A=60℃		$I_{(AV)}$	6.0							Amps
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I_{FSM}	150							Amps
Maximum Instantaneous Forward Voltage at 6.0A		V_F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking voltage	T_A = 25℃	I_R	10							uA
	T_A = 100℃		100							
Typical Junction Capacitance (NOTE 1)		C_J	150							pF
Typical Thermal Resistance (NOTE 2)		$R_{\theta JA}$	10							℃/W
Operating and Storage Temperature Range		T_J, T_{STG}	-55 to +150							℃

1- Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
2-Thermal Resistance from Junction to Ambient at. 375 ” (9.5mm)lead length, P.C. board mounted.

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6A05 THRU 6A10

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

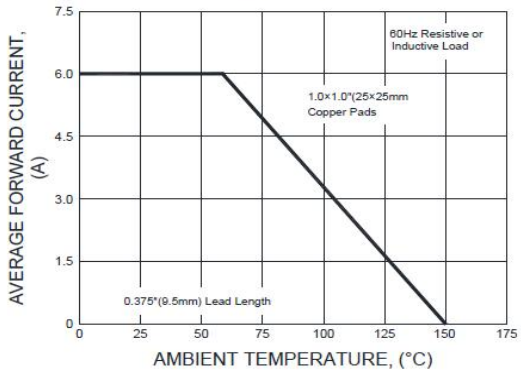


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

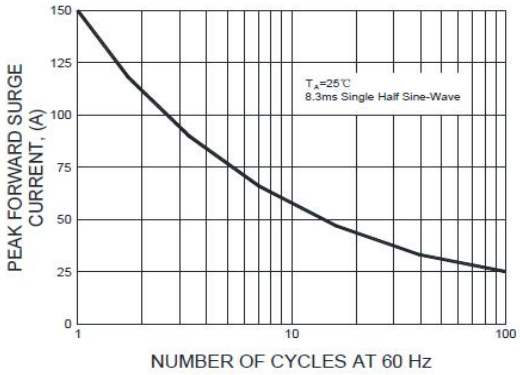


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

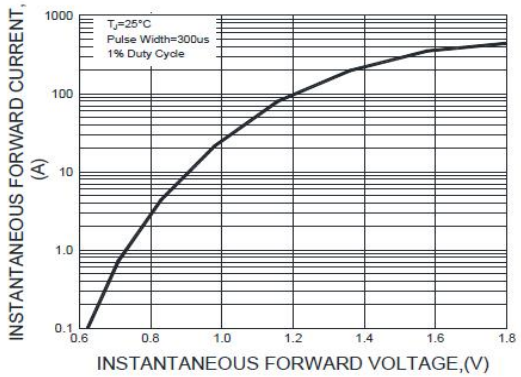


FIG.4-TYPICAL REVERSE CHARACTERISTICS

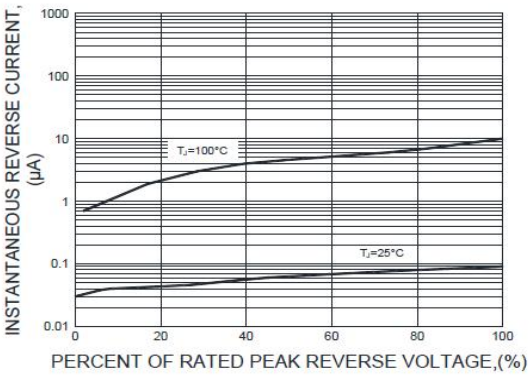
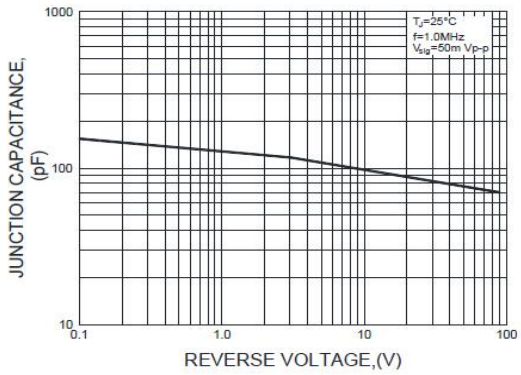


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.