

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

6A05M THRU 6A10M

FEATURES

- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge current capability

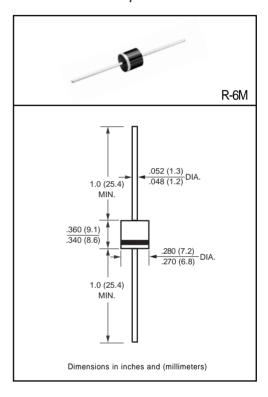
MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 1.65 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



		SYMBOL	6A05M	6A1M	6A2M	6A4M	6A6M	6A8M	6A10M	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 60°C		Io	6.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	300						Amps	
Maximum Instantaneous Forward Voltage at 6.0A DC		VF	0.95						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C		10							uAmps
	@Ta = 100°C	l _R	500							
Maximum Full Load Reverse Current Average Full Cycle .375*(9.5mm) lead length at T $_{\rm L}$ = 75 $^{\circ}$ C		T IK	50							uAmps
Typical Junction Capacitance (Note)		CJ	150							pF
Typical Thermal Resistance		RθJA	10							°C/W
Operating and Storage Temperature Range		TJ, TSTG	-65 to + 175							٥C

NOTES: Measured at 1 MHz and applied reverse voltage of 4.0 volts

RATING AND CHARACTERISTIC CURVES (6A05M THRU 6A10M)

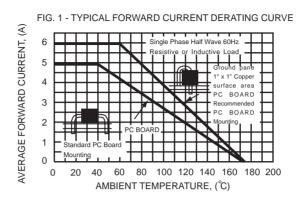


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

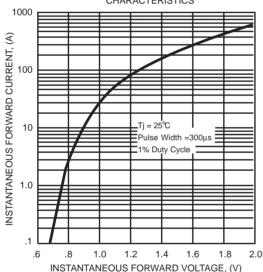


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

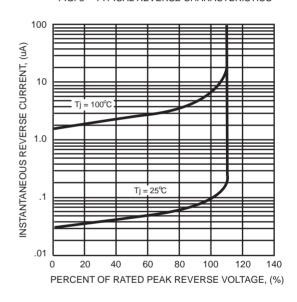


FIG. 4 - MAXIUM NON-REPETITIVE FORWARD

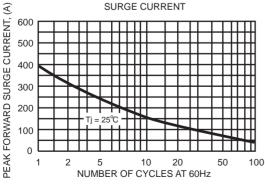


FIG. 5 - TYPICAL THERMAL RESISTANCE VS LEAD LENGTH

