

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

6A05M THRU 6A10M

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 6.0 Amperes

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 rated flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed

* Polarity: Color band denotes cathode end

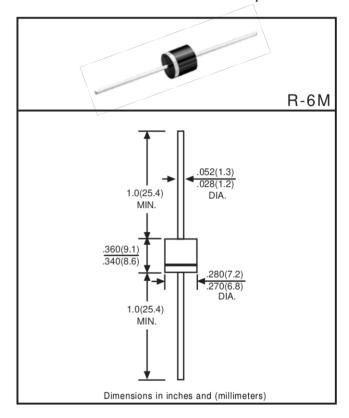
* Mounting position: Any

* Weight: 2.08 gram approx. (R-6)

* Weight: 1.65 gram approx. (R-6M)

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%.



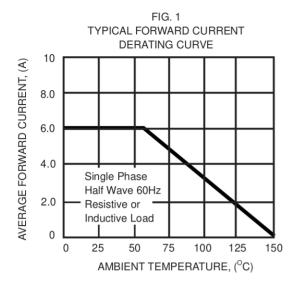
	SYMBOL	6A05M	6A1M	6A2M	6A4M	6A6M	6A8M	6A10M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) lead length at T _A = 60°C	lo				6.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsм	300					Amps		
Maximum Instantaneous Forward Voltage at 6.0A DC	VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage @ Ta=25°C @ Ta=100°C		10							μ А mps
	l _R	500							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T _L = 75°C	In In	50							
Typical Junction Capacitance (Note 1)	Cı	150							pF
Typical Thermal Resistance (Note 2)	R ₀ J A	10							°C/W
Operating and Storage Temperature Range	TJ,TsTG		-55 to +150						°C

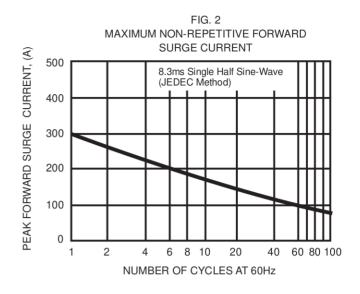
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

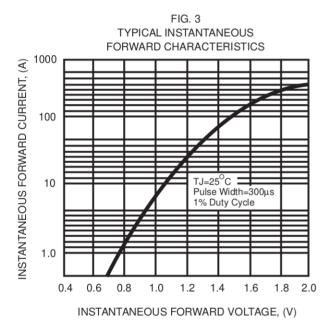
Note 2: Typical thermal resistance from junction to ambient.

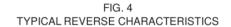
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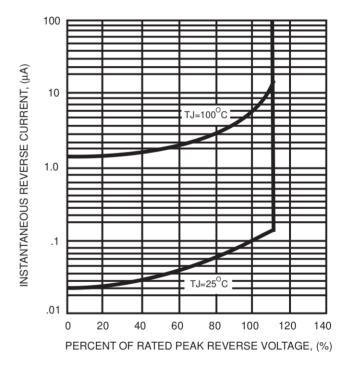
RATING AND CHARACTERISTIC CURVES (6A05A THRU 6A10M)

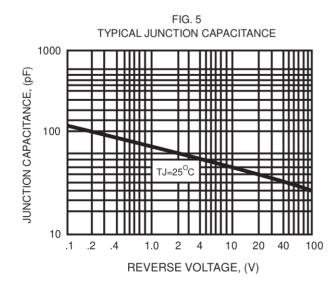












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