

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

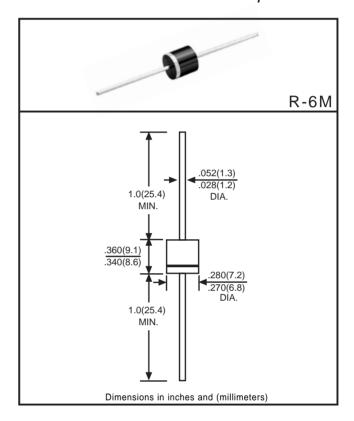
* Mounting position: Any

* 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%.



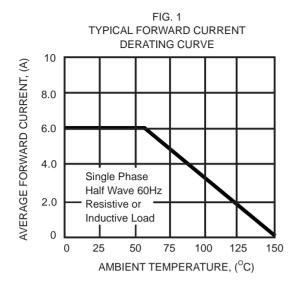
| | | SYMBOL | 6A05M | 6A1M | 6A2M | 6A4M | 6A6M | 6A8M | 6A10M | UNITS |
|---|---------|----------------------------------|-------------|------|------|------|------|------|-------|---------|
| Maximum Recurrent Peak Reverse Voltage | | Vrrm | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum 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) | | Ігѕм | 300 | | | | | | Amps | |
| Maximum Instantaneous Forward Voltage at 6.0A DC | | VF | 1.1 | | | | | | Volts | |
| Maximum DC Reverse Current at Rated @ TA | \=25°C | | 10 | | | | | | | µАmps |
| DC Blocking Voltage @ TA | \=100°C | l _R | 500 | | | | | | | |
| Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T _L = 75°C | | | 50 | | | | | | | да широ |
| Typical Junction Capacitance (Note 1) | | CJ | 150 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | | Reja | 10 | | | | | | | °C/W |
| Operating and Storage Temperature Range | | T _J ,T _{STG} | -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)



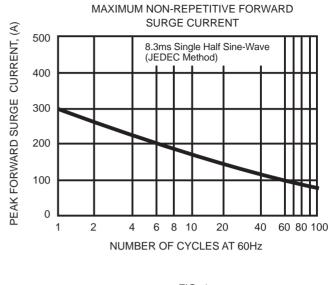
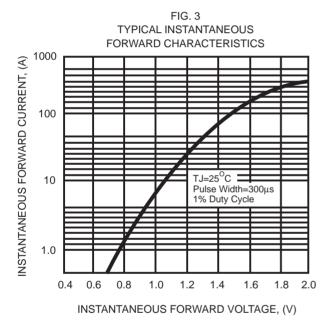
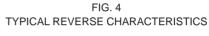
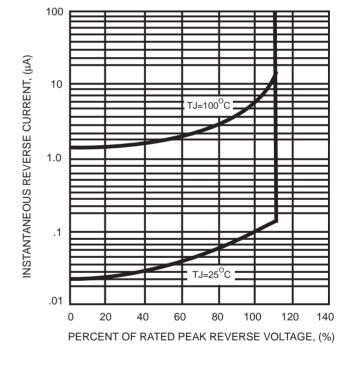
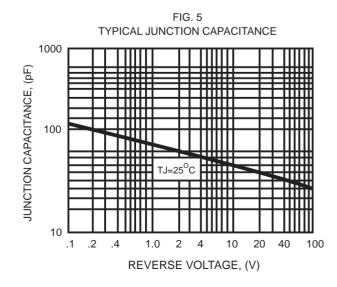


FIG. 2









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