

## DC COMPONENTS CO., LTD.

#### RECTIFIER SPECIALISTS

6A05 / P600A THRU 6A10 / P600M

# 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

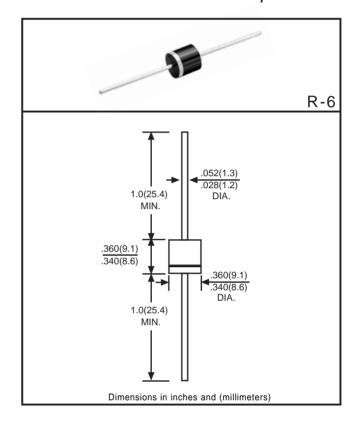
\* Polarity: Color band denotes cathode end

\* Mounting position: Any

\* Weight: 2.08 gram approx.

#### 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%.



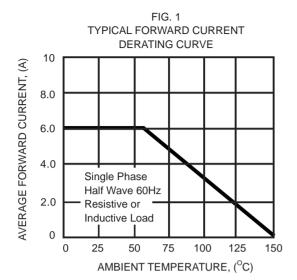
		6A05	6A1	6A2	6A4	6A6	6A8	6A10	1
	SYMBOL	P600A	1 -	_	l -			P600M	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) lead length at $T_A = 60^{\circ}C$	lo	6.0					Amps		
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		300						Amps	
Maximum Instantaneous Forward Voltage at 6.0A DC	VF	1.1							Volts
Maximum DC Reverse Current at Rated @ T <sub>A</sub> =25	°C	10						иAmps	
DC Blocking Voltage @ T <sub>A</sub> =10	0°C I <sub>R</sub>	500							
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at $T_L = 75^{\circ}C$	IIX	50						ga unpo	
Typical Junction Capacitance (Note 1)			150						pF
Typical Thermal Resistance (Note 2)			10						°C/W
Operating and Storage Temperature Range			-55 to +150						°C

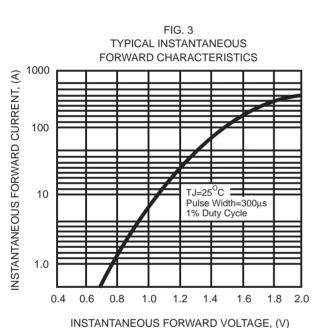
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

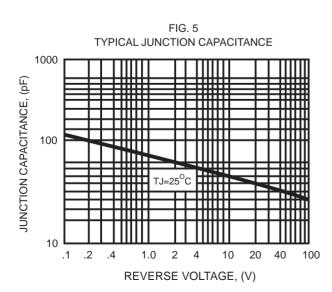
Note 2: Typical thermal resistance from junction to ambient.

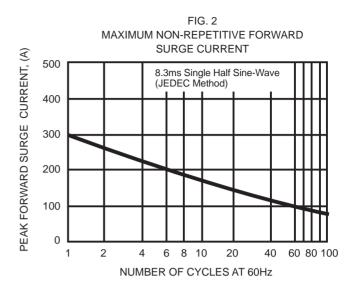
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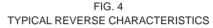
# RATING AND CHARACTERISTIC CURVES ( 6A05 THRU 6A10 ) P600M

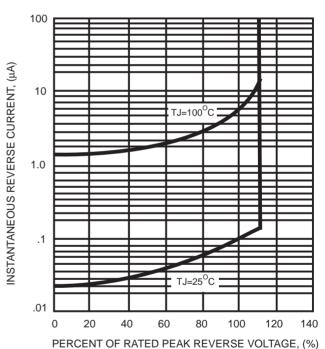












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