

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

6A05/P600A THRU 6A10/P600M

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

FEATURES

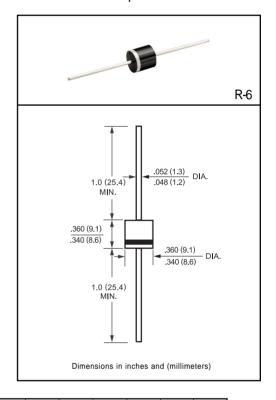
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any * Weight: 2.08 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%.



			P600A	P600B	P600D	P600G	P600J	P600K	P600M	
		SYMBOL	6A05	6A1	6A2	6A4	6A6	6A8	6A10	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		lo	6.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	400						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		10						uAmps	
	@Ta = 100°C	l _R	500							
Maximum Full Load Reverse Current Average Full Cycle $.375^*(9.5mm)$ lead length at T $_L = 75^\circ\text{C}$		IK IK	50							uAmps
Typical Junction Capacitance (Note)		Cı	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

6A05 THRU P600A P600M

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

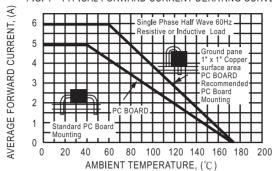


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

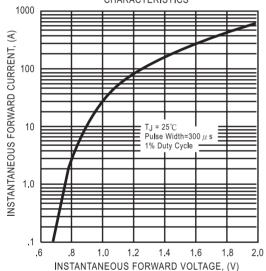


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

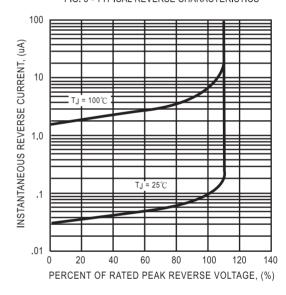


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD

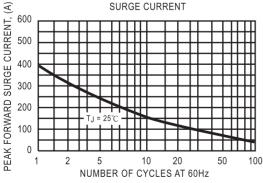
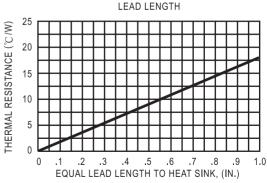


FIG. 5 - TYPICAL THERMAL RESISTANCE VS





DC COMPONENTS CO., LTD.

Find price and stock options from leading distributors for P600M on Findchips.com:

https://findchips.com/search/P600M

Find CAD models and details for this part:

https://findchips.com/detail/p600m/DC-Components-Co-Ltd