DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

6A05(M) P600A THRU 6A10(M) P600M

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

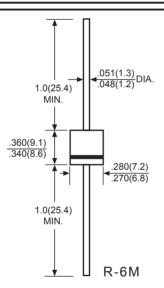
CURRENT - 6.0 Amperes

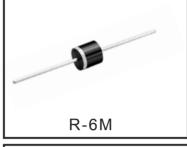
FEATURES

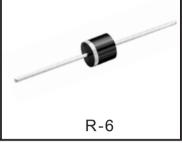
- * Low cost
- * Low leakage current
- * Low forward voltage drop
- * High current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94-V0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 2.08 gram (6A0x / P600x)
- * Weight: 1.65 gram (6A0xM)

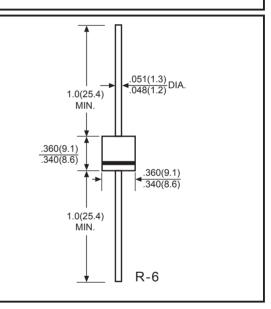






MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.

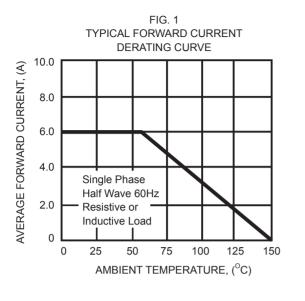


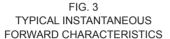
			P600A	P600B	P600D	P600G	P600J	P600K	P600M]
		SYMBOL	6A05(M)	6A1(M)	6A2(M)	6A4(M)	6A6(M)	6A8(M)	6A10(M)	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	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)		IFSM		250						Amps
Maximum Instantaneous Forward Voltage at 6.0A DC		VF		1.1						Volts
Maximum DC Reverse Current at Rated@TJ =DC Blocking Voltage@TJ =		IR 5.0 500							μAmps	
Typical Junction Capacitance (Note 1)		CJ	150							pF
Typical Thermal Resistance (Note 2)		RθJA	10							°C/W
Operating and Storage Temperature Range		Tj,Tstg	-55 to +150							°C

Dimensions in inches and (millimeters)

Note 1 :Measured at 1 MHz and applied reverse voltage of 4.0 volts. Note 2 :Typical thermal resistsnce from junction to ambient.

RATING AND CHARACTERISTIC CURVES ($\begin{array}{c} 6A05(M) \\ P600A \end{array}$ THRU $\begin{array}{c} 6A10(M) \\ P600M \end{array}$)





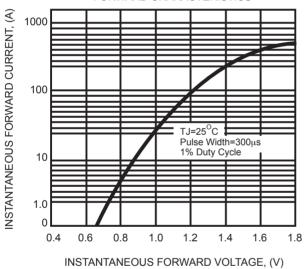


FIG 5 TYPICAL JUNCTION CAPACITANCE 100 JUNCTION CAPACITANCE, (pF) 10 Ŧ TJ=25°C П 0 .1 .2 .4 2 4 10 20 40 100 1.0 REVERSE VOLTAGE, (V)

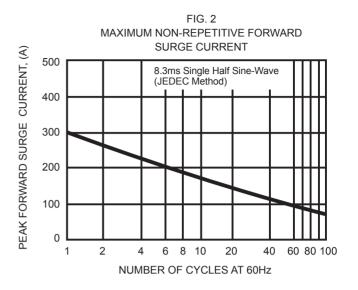
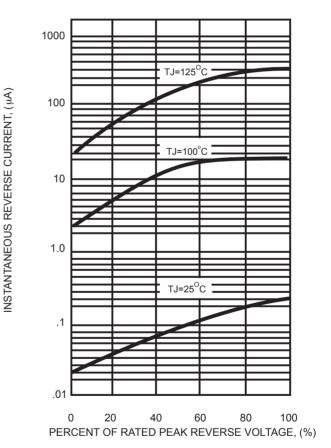


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



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