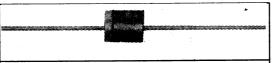


6A05 THRU 6A10

6.0 AMPS. SILICON RECTIFIERS

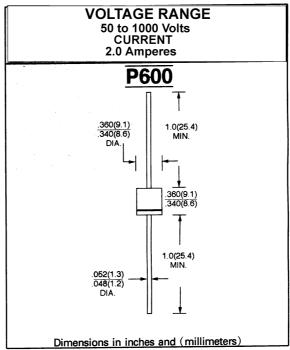


FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting Position: Any
- * Weight: 2.0 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%

TYPE NUMBER	SYMBOLS	6 A 05	6 A 1	6 A 2	6 A 4	6 A 6	6 A 8	6 A 10	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum D. C Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current .375" (9.5mm) lead length	I _{F(AV)}	6.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load(JEDEC method)	IFSM	250							A
Maximum Instantaneous Forward Voltage at 6.0A	V _F	1.0							V
Maximum D.C Reverse Current ② T _A = 25°C at Rated D.C Blocking Voltage ② T _A = 100°C	I _R	10.0 200							μA μA
Typical Junction Capacitance (Note 1)	CJ	100							pF
Typical Thermal Resistance (Note 2)	R _{UA}	10							°C/W
Operating Temperature Range	TJ	- 65 to + 125							℃
Storage Temperature Range	T _{STG}	- 65 to + 150							℃

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance from Junction to Ambient 0.375"(9.5mm) Lead Length.



RATINGS AND CHARACTERISTIC CURVES (6A05 THRU 6A10)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

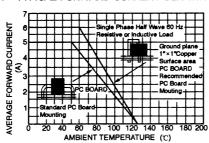


FIG.2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

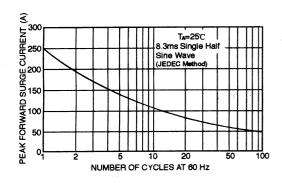


FIG.3 - TYPICAL FORWARD SURGE CURRENT

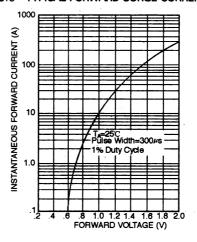


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

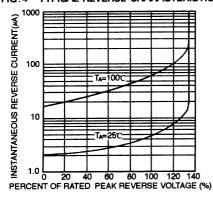


FIG.5 - TYPICAL JUNCTION CAPACITANCE

