



P600A/P6A05 THRU P600M/P6A10

6.0 AMPS. Silicon Rectifiers

PLASTIC SILICON RECTIFIERS

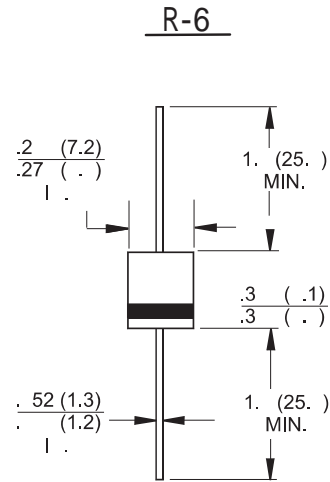
Voltage Range
-50 to 1000 V olts
Current
-6.0Amperes

Features

- Low cost
- Diffused junction
- Low forward voltage drop
- Low reverse leakage current
- High current capability
- The plastic material carries UL recognition 94V-0

Mechanical Data

- Cases: JEDEC DO-15 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.07 ounces, 2.1 grams
- Mounting position: Any



Maximum Ratings and Electrical Characteristics

Rated at 25°C unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	P600A	P600B	P600D	P600G	P600J	P600K	P600M	Units
	P6A05	P6A1	P6A2	P6A4	P6A6	P6A8	P6A10	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length @ T _A = 60	6.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	400							A
Maximum Instantaneous Forward Voltage @ 6.0A	1.0							V
Maximum DC Reverse Current @ T _J = 25 at Rated DC Blocking Voltage @ T _J = 100	10 100							uA uA
Typical Junction Capacitance (Note 1)	100							pF
Typical Thermal Resistance R _{JA} (Note 2)	10							°C/W
Operating Temperature Range T _J	-55 to +125							°C
Storage Temperature Range T _{STG}	-55 to +150							°C

- Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.
2. Thermal Resistance of Lead.

RATINGS AND CHARACTERISTIC CURVES (6A05 THRU 6A100)

FIG.1- MAXIMUM OUTPUT CURRENT VS AMBIENT TEMPERATURE

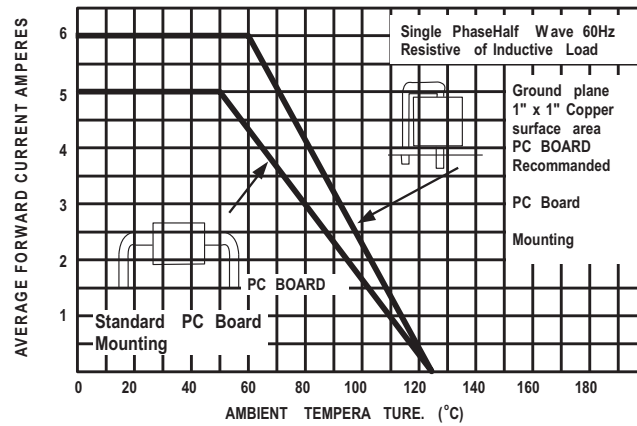


FIG.2- TYPICAL FORWARD CHARACTERISTICS

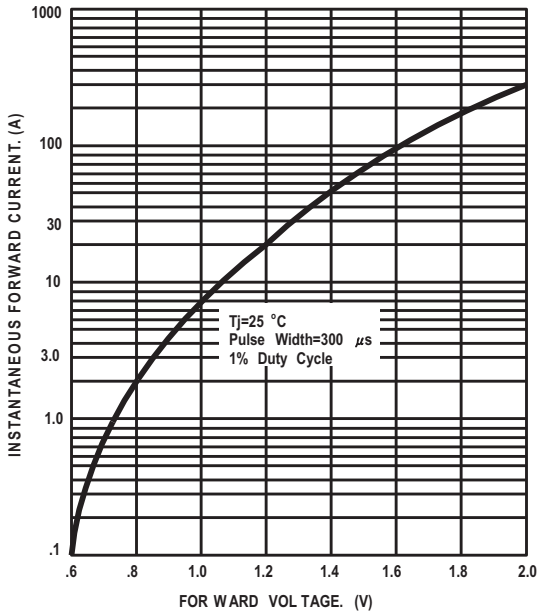


FIG.3- TYPICAL REVERSE CHARACTERISTICS

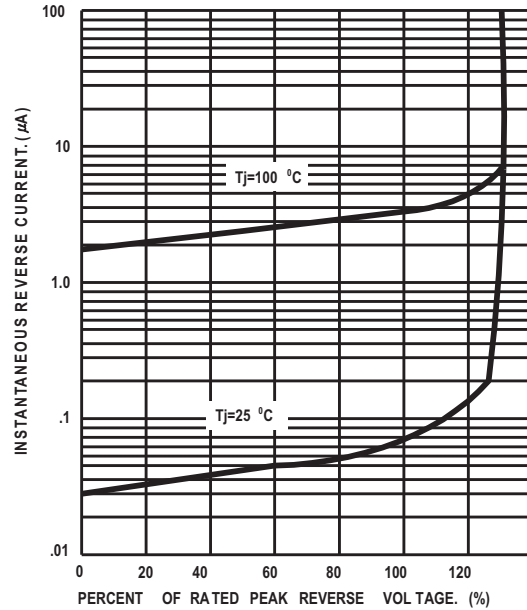


FIG.4- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

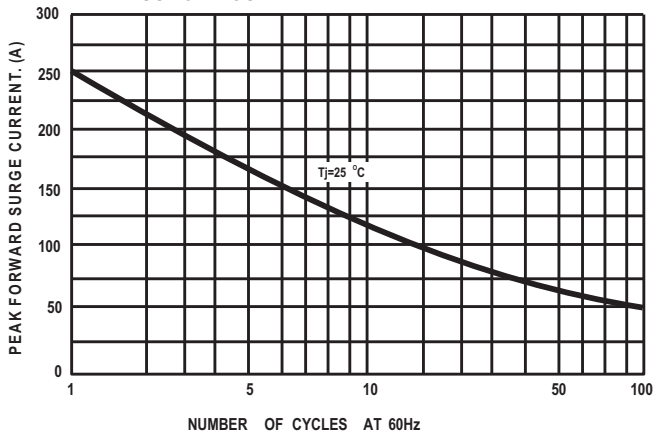


FIG.5- TYPICAL JUNCTION CAPACITANCE

