

UG06A THRU UG06D

0.6 AMP. Ultrafast Plastic Rectifiers

Voltage Range 50 TO 200 Volts Current 0.6 Ampere

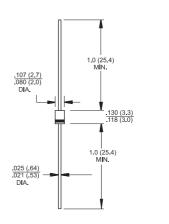
TS-1

Features

- Plastic package has Underwriters Laboratories
 Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- Ultrafast recovery time for high efficiency
- ♦ Excellent high temperature switching
- ♦ Glass passivated junction
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension

Mechanical Data

- Cases: Void free molded plastic body over glass passivated chip
- Terminals: Axial leads, solderable per MIL-STD-750. Method 2026
- Polarity: Color band denotes cathode end
- ♦ Mounting position: Any
- Weight: 0.0064 ounce, 0,181 gram



Dimensions in inches and (millimeters)

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 | Symbol | UG06A | UG06B | UG06C | UG06D | Units |
|--|-------------------------------|-------------|-------|-------|-------|-------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 150 | 200 | V |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 105 | 140 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 150 | 200 | V |
| Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length $@T_L = 75$ °C | I _(AV) | 0.6 | | | | Α |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) $@T_L = 75^{\circ}C$ | I _{FSM} | 40 | | | | Α |
| Maximum Instantaneous Forward Voltage @ 0.6A | V _F | 0.95 | | | | V |
| Maximum DC Reverse Current @ T_A =25°C at Rated DC Blocking Voltage @ T_A =100°C | I _R | 5.0 100 | | | | uA uA |
| Maximum Reverse Recovery Time (Note 1) | Trr | 15 | | | | nS |
| Typical Junction Capacitance (Note 2) | Cj | 9.0 | | | | pF |
| Typical Thermal Resistance (Note 3) | $R 	heta_{JA} \ R 	heta_{JL}$ | 97 28 | | | | ℃ /W |
| Operating Temperature Range | TJ | -55 to +150 | | | | C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | C |

Notes: 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 Volts D.C.
- 3. Thermal Resistance from Junction to Ambient at 0.375" (9.5mm) Lead Length. Mount on Cu-Pad Size 0.2" x 0.2" (5mm x 5mm) on PCB.



