

UG06A THRU UG06D

0.6 AMP. Ultrafast Plastic Rectifiers

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Voltage Range 50 TO 200 Volts Current 0.6 Ampere

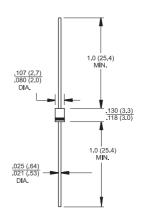
TS-1

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 $@T_L = 75^{\circ}C$	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				J
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.



