







Features

- Plastic package has Underwrites Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- ♦ Ulterafast recovery time for high efficiency
- ♦ Glass passivated junction
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5lbs.,(2.3kg) tension
- ♦ Green compound with suffix "G" on packing code & prefix "G" on datecode

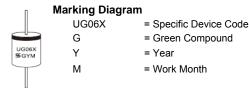
Mechanical Data

- Cases: Void free molded plastic body over glass passivated chip iunction
- Terminals: Pure tin plated leads, solderable per MIL-STD-750, Method 2026
- ♦ Polarity: Color band denotes cathode
- ♦ Mounting position: Any
- ♦ Weight: 0.181 grams

1.0 (25.4) MIN. .107 (2.7) .080 (2.0) DIA. .130 (3.3) .118 (3.0) .1.0 (25.4) MIN.

0.6AMP. Glass Passivated Super Fast Rectifiers

Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

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}	25	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 _{F(AV)}	0.6				А
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	40				А
Maximum Instantaneous Forward Voltage (Note 1) @ 0.6A	V _F	0.95				٧
Maximum DC Reverse Current at Rated	I _R	5 150				uA uA
Maximum Reverse Recovery Time (Note 2)	Trr	15				nS
Typical Junction Capacitance (Note 3)	Cj	9				pF
Typical Thermal Resistance (Note 4)	$R_{ heta JA} \ R_{ heta JL}$	97 28				°C/W
Operating Temperature Range T _J	T_J	- 55 to + 150				οС
Storage Temperature Range T _{STG}	T _{STG}	- 55 to + 150				οС

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 3: Measured at 1MHz and Applied Reverse Voltage of 4.0 Volts D.C.

Note 4: Thermal Resistance from Junction to Ambient at 0.375"(9.5mm) Lead Length. Mounted on Cu-Pad Size 0.2" x 0.2" (5mm x 5mm) on PCB.



RATINGS AND CHARACTERISTIC CURVES (UG06A THRU UG06D)

