

UG06A - UG06D

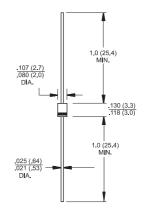


0.6 AMP. Glass Passivated Super Fast Rectifiers



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 junction
- Terminals: Pure tin plated, lead free, solderable per MIL-STD-750, Method 2026
- ♦ Polarity: Color band denotes cathode
- Mounting position: Any
- Weight: 0.0064 ounce, 0,181 gram

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 °C	I _{FSM}	40				А
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 =125 °C	I _R	5.0 150				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 _{θJA} R _{θJL}	97 28				°C/W
Operating Temperature Range T _J	TJ	-55 to +150				°C
Storage Temperature Range T _{STG}	Tstg	-55 to +150				°C

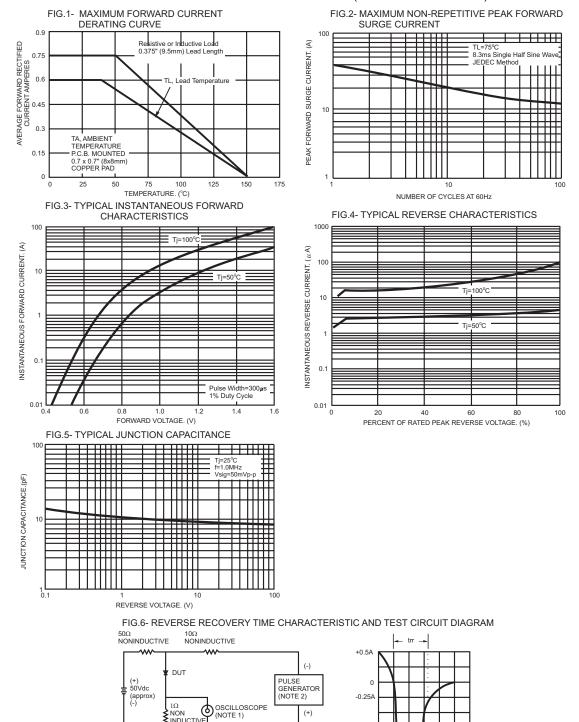
Notes:

- 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.
- 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.

Dimensions in inches and (millimeters)



RATINGS AND CHARACTERISTIC CURVES (UG06A THRU UG06D)



-1.0A

NOTES: 1. Rise Time=7ns max. Input Impedance= 1 megohm 22pf 2. Rise Time=10ns max. Sourse Impedance= 50 ohms

1cm SET TIME BASE FOR