## **UERP06G**

# **Ultra fast Plastic Power Rectifiers**

VOLTAGE: 400V

CURRENT: 6.0A

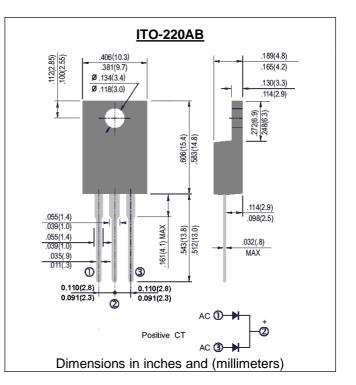
#### FEATURE

- 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
- Ultra fast recovery time for high efficiency
- Excellent high temperature switching
- Glass passivated junction
- •High voltage and high reliability
- High voltage and high reliability
  High speed switching
- Low forward voltage
- · Low lorward voltage

#### **MECHANICAL DATA**

Case: JEDEC ITO-220AB molded plastic body over passivated chip Terminals: Plated Insert leads, solderable per MIL-STD-750, Method 2026

Mounting Position: Any



GOLF SEMI

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

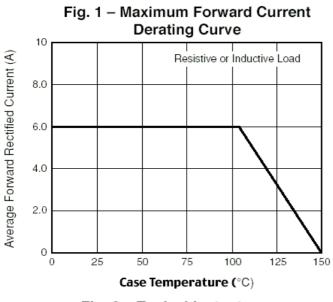
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

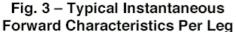
	SYMBOL	UERP06G	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	400	V
Maximum RMS Voltage	Vrms	280	V
Maximum DC blocking Voltage	Vdc	400	V
Maximum Average Forward Rectified at Tc =100°C	lf(av)	6.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	75	A
Maximum Forward Voltage at rated Forward Current at 3A per leg	Vf	1.25	V
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical thermal resistance junction to case	R θ Jc	5.0	C/V
Maximum DC Reverse Current Ta = $25^{\circ}$ C at rated DC blocking voltage Ta = $125^{\circ}$ C	Ir	10 100	μΑ μΑ
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	

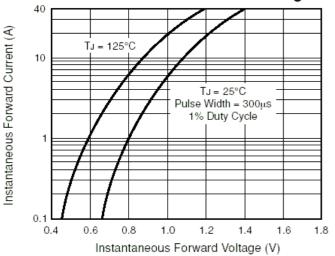
Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

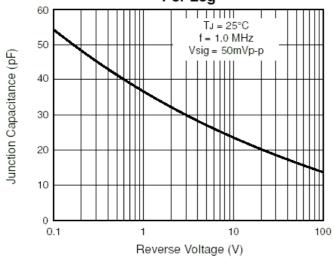


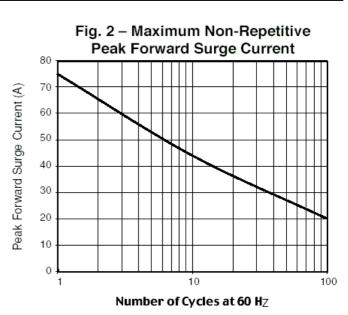




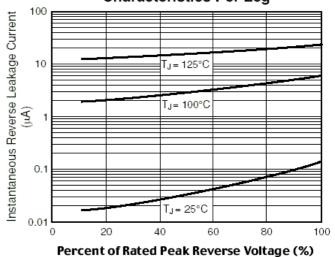












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