# UERA16G

## **Ultra fast Plastic Power Rectifiers**

VOLTAGE: 400V

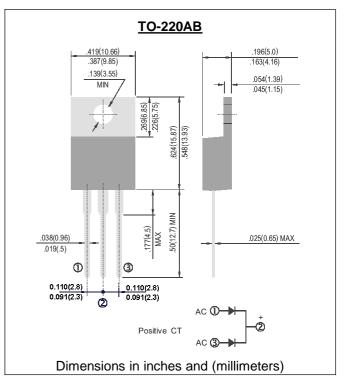
CURRENT:16.0A

### 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 speed switching
- Low forward voltage

#### **MECHANICAL DATA**

Case: JEDEC TO-220 molded plastic body over passivated chip Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	UERA16G	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)	16.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	200	A
Maximum Forward Voltage at Forward Current 8A and 25°C	Vf	1.3	V
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical thermal resistance junction to case	R θ Jc	2.2	°C/W
Typica junction capacitance per leg (Note 2)	Cj	85	pF
Maximum DC Reverse Current Ta =25°C	lr	10	μA
at rated DC blocking voltage $Ta = 100^{\circ}C$	11	500	μA
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

Note:

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

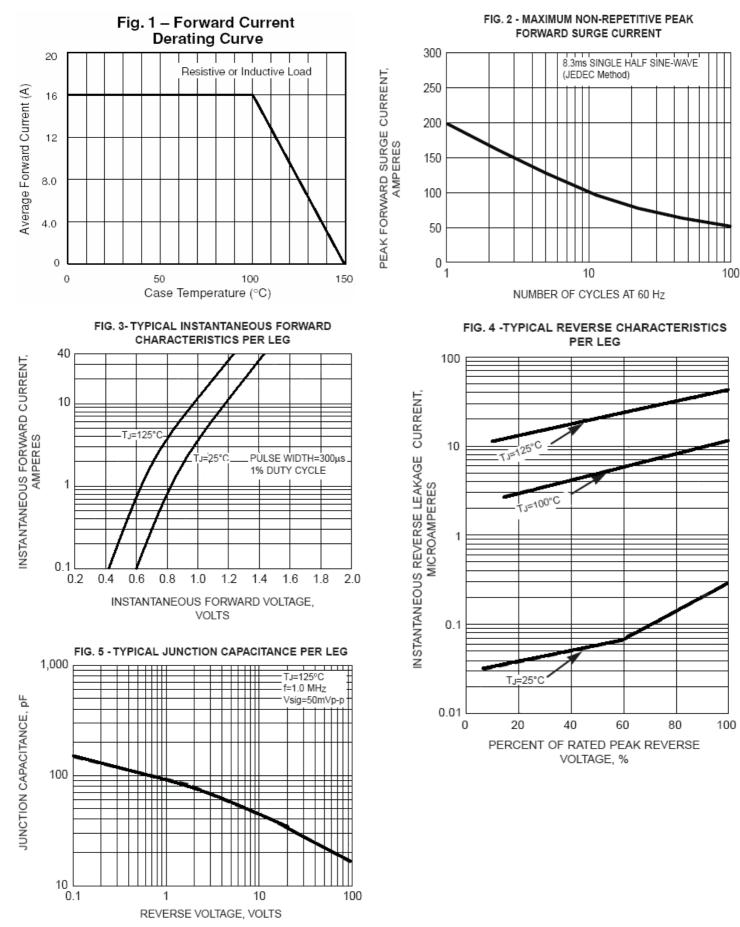
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

Rev.A1

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#### **RATINGS AND CHARACTERISTIC CURVES UERA16G**

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