# UERA10D

## **Ultra fast Plastic Power Rectifiers**

VOLTAGE: 200V

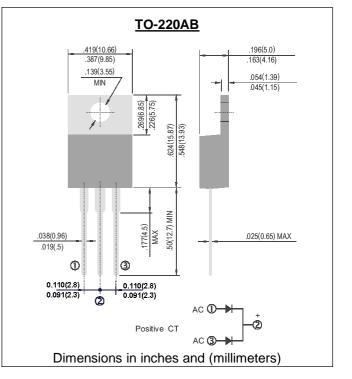
CURRENT:10.0A

## 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	UERA10D	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Maximum Average Forward Rectified at Tc =100°C	lf(av)	10.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	100	A
Maximum Forward Voltage at rated Forward Current and 25°C at 5A	Vf	1.0	V
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical thermal resistance junction to case	Rth(jc)	5.0	°C/W
Maximum DC Reverse Current Ta = $25^{\circ}$ C	Ir	10	μΑ
at rated DC blocking voltage Ta = $125^{\circ}C$	"	100	μA
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

Note:

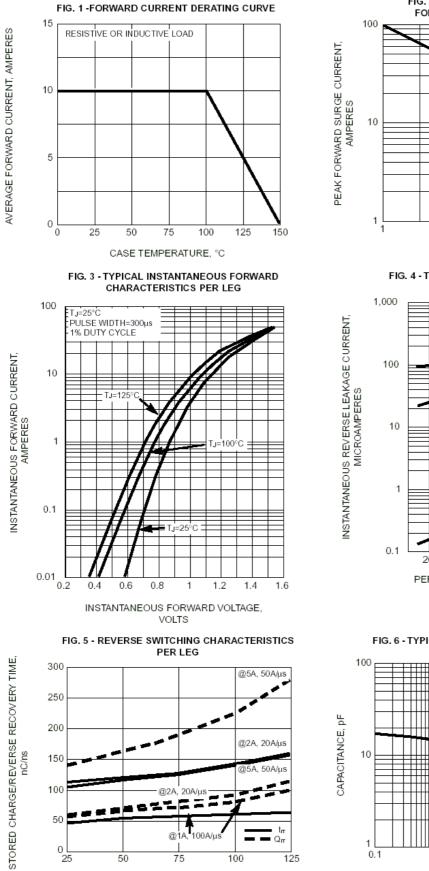
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

Rev.1

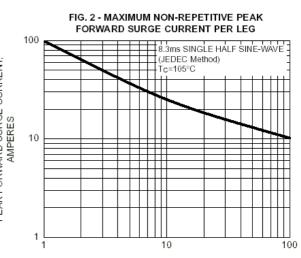
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#### RATINGS AND CHARACTERISTIC CURVES UERA10D









NUMBER OF CYCLES AT 60 Hz

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

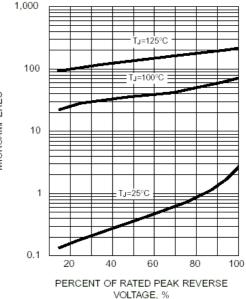
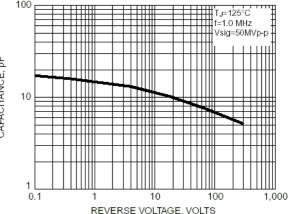


FIG. 6 - TYPICAL JUNCTION CAPACITANCE PER LEG



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