## **UESP08K**

# **Ultra fast Plastic Power Rectifiers**

VOLTAGE: 800V

CURRENT:8.0A

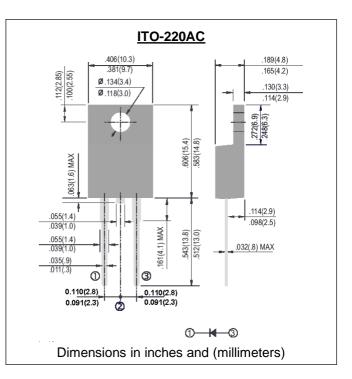


- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- Ultra fast recovery time for high efficiency
- Excellent high temperature switching
- Glass passivated junction
- •High voltage and high reliability
- High speed switching
- Low forward voltage

### **MECHANICAL DATA**

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

Mounting Position: Any



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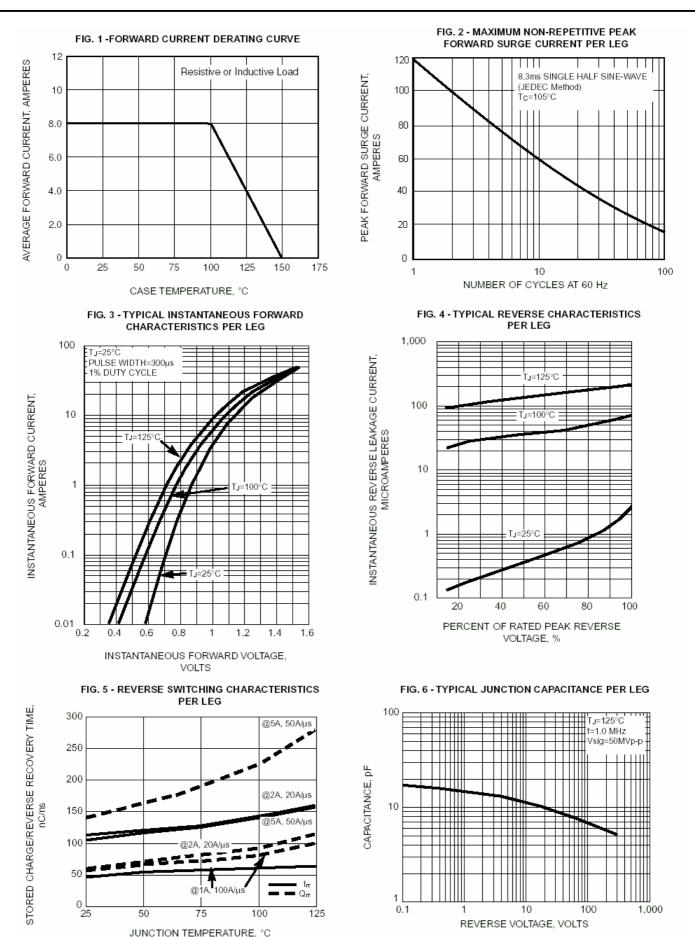
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	UESP08K	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	800	V
Maximum RMS Voltage	Vrms	560	V
Maximum DC blocking Voltage	Vdc	800	V
Maximum Average Forward Rectified at Tc =100°C	lf(av)	8.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	120	A
Maximum Forward Voltage at rated Forward Current	Vf	1.5	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°C	lr	10	μΑ
at rated DC blocking voltage Ta = $125^{\circ}C$	п	500	μΑ
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



#### **RATINGS AND CHARACTERISTIC CURVES UESP08K**

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