## UGRA10D

# **Ultra fast Plastic Power Rectifiers**

VOLTAGE: 200V

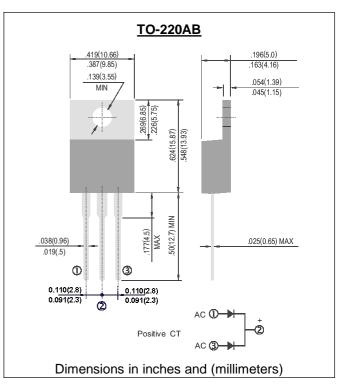
CURRENT: 10.0A

#### **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



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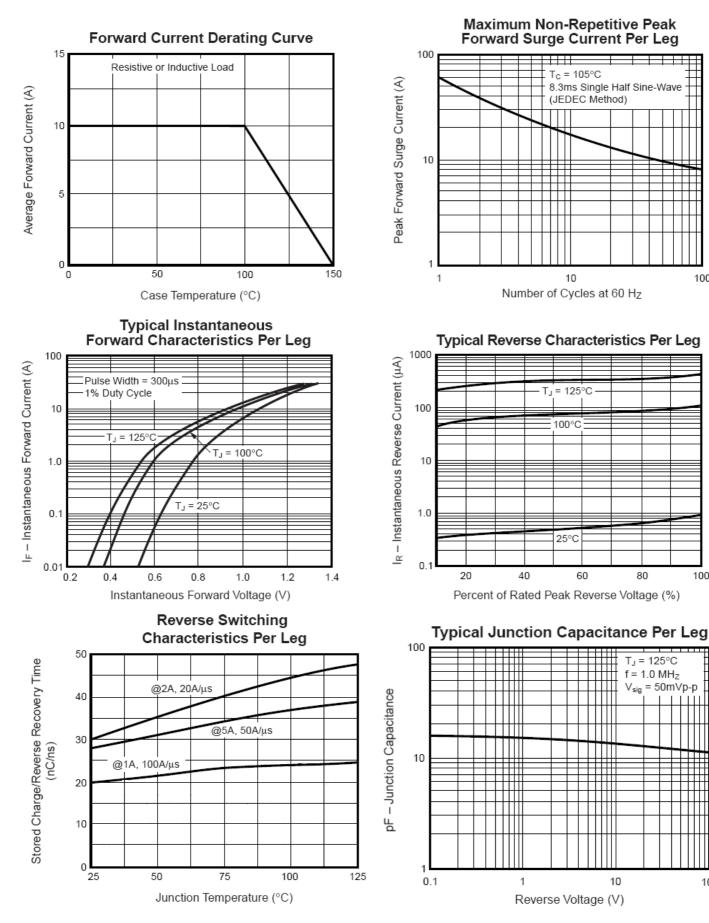
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	UGRA10D	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	80	A
Maximum Forward Voltage at Forward Current 5A and 25°C	Vf	1.10	V
Maximum Reverse Recovery Time (Note 1)	Trr	15	nS
Typical thermal resistance junction to case	Rth(jc)	4.5	°C/W
Maximum DC Reverse Current $Ta = 25^{\circ}C$ at rated DC blocking voltage $Ta = 100^{\circ}C$	Ir	10 200	μΑ
Storage and Operating Temperature Range	Tstg, Tj	-40 to +150	°C

Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr

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#### **RATINGS AND CHARACTERISTIC CURVES UGRA10D**

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