UGRA18D

Ultra fast Plastic Power Rectifiers

VOLTAGE: 200V CURRENT:18.0A



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

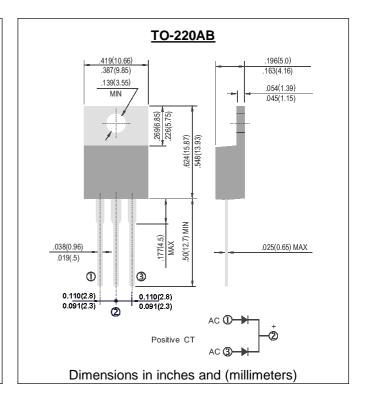
passivated chip

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)

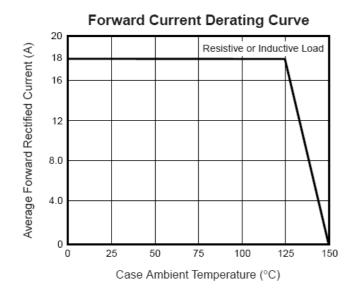
	SYMBOL	UGRA18D	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Maximum Average Forward Rectified at Tc =125°C	If(av)	18.0	Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	150	Α
Maximum Instantaneous Forward Voltage per leg at 25°C and 9A	Vf	1.15	V
Maximum Reverse Recovery Time (Note 1)	Trr	25	nS
Maximum DC Reverse Current $Ta = 25^{\circ}C$ at rated DC blocking voltage $Ta = 100^{\circ}C$	lr	10 600	μΑ
Typical thermal resistance junction to case	Rth(jc)	1.6	C/W
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

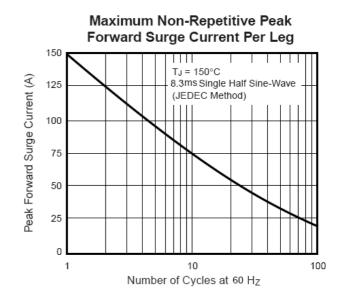
Note:

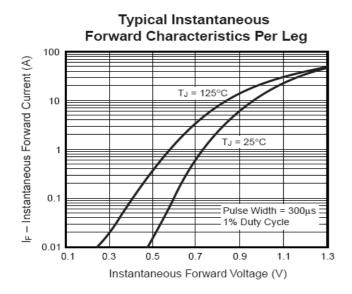
Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

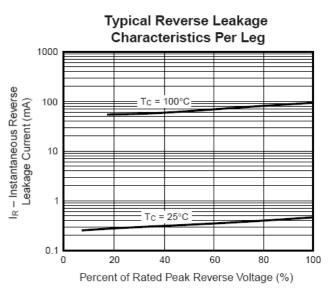
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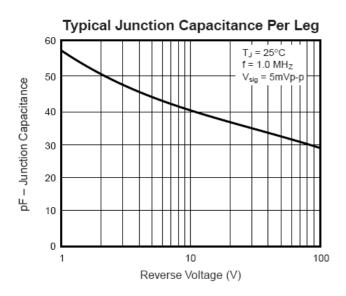
RATINGS AND CHARACTERISTIC CURVES UGRA18D











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