UGRP16D

Ultra fast Plastic Power Rectifiers

VOLTAGE: 200V

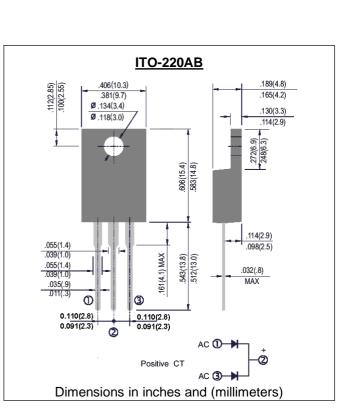
CURRENT: 16.0A



- 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-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



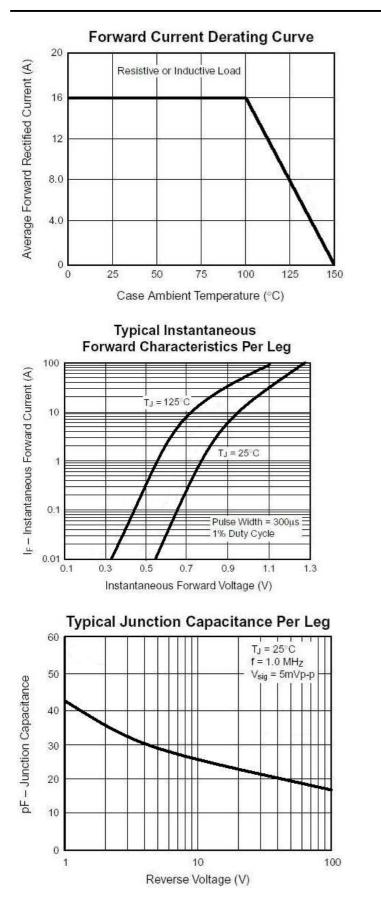
GULF SEMI

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

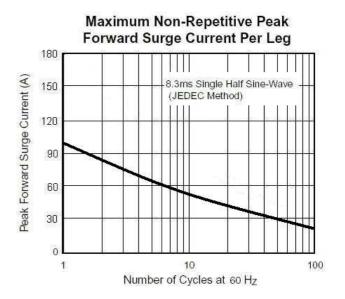
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	UGRP16D	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)	16.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	100	A
Maximum Forward Voltage at Forward Current and 25°C at 8A	Vf	0.975	V
Maximum DC Reverse CurrentTa =25°Cat rated DC blocking voltageTa =125°C	Ir	5.0 100.0	μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	20	nS
Typical thermal resistance junction to case	Rth(jc)	3.0	C/W
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

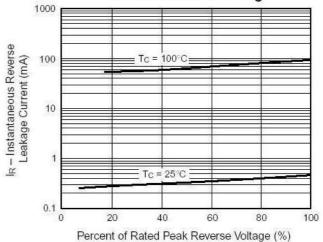
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RATINGS AND CHARACTERISTIC CURVES UGRP16D



Typical Reverse Leakage Characteristics Per Leg



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