UERB20F

Ultra fast Plastic Power Rectifiers

VOLTAGE: 300V

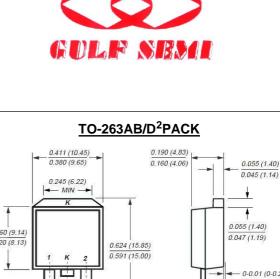
CURRENT:20.0A



- 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 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



0.360 (9.14) 0.320 (8.13) 0-0.01 (0-0.254) 0.110 (2.79) 0.027 (0.686) 0.021 (0.53) PIN 1 O 0.037 (0.940) 0.014 (0.36) -0 K - HEATSINK PIN 2 O 0.105 (2.67) 0.140 (3.56) 0.095 (2.41) 0.110 (2.79) 0.205 (5.20) 0.195 (4.95) Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	UERB20F	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	300	V
Maximum RMS Voltage	Vrms	210	V
Maximum DC blocking Voltage	Vdc	300	V
Maximum Average Forward Rectified at Tc =100°C	lf(av)	20.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	180	A
Maximum Forward Voltage at Forward Current 10A and 25°C	Vf	1.3	V
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical thermal resistance junction to case	R θ Jc	5.0	°C/W
Maximum DC Reverse Current Ta =25°C	Ir	10.0	μΑ
at rated DC blocking voltage Ta = $125^{\circ}C$	п	100.0	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

Rev.A1

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RATINGS AND CHARACTERISTIC CURVES UERB20F