UGRB20D

Ultra fast Plastic Power Rectifiers

VOLTAGE: 200V CURRENT: 20.0A



FEATURE

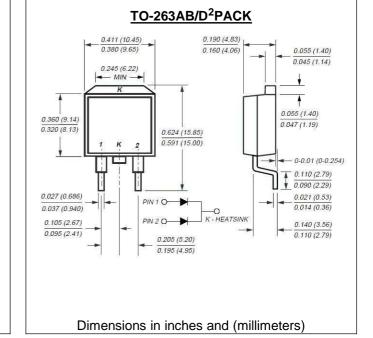
- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- Ultra fast recovery time for high efficiency
- Excellent high temperature switching
- Glass passivated junction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

MECHANICAL DATA

Case: JEDEC D2PAK 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)

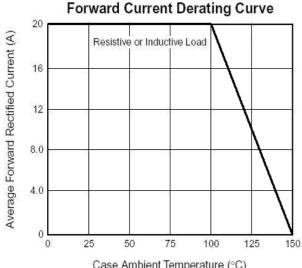
	SYMBOL	UGRB20D	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	20.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	140	А
Maximum Forward Voltage at Forward Current and 25°C at 20A	Vf	1.15	V
Maximum DC Reverse Current $Ta = 25^{\circ}C$ at rated DC blocking voltage $Ta = 125^{\circ}C$	lr	5.0 100.0	μА
Maximum Reverse Recovery Time (Note 1)	Trr	15	nS
Typical thermal resistance junction to case	Rth(jc)	3.0	C/W
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

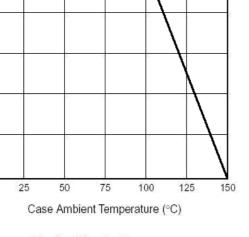
Note:

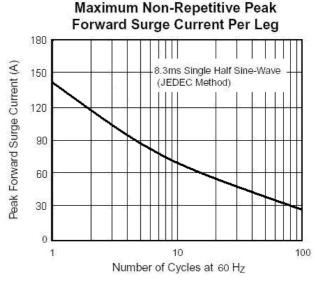
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

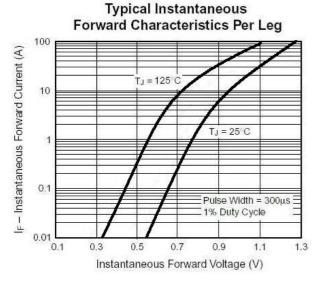
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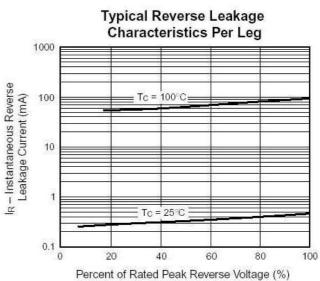
RATINGS AND CHARACTERISTIC CURVES UGRB20D

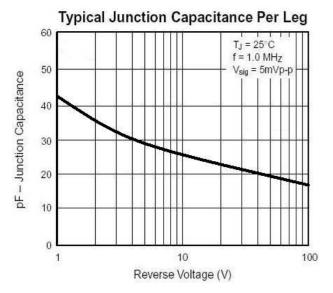












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