UERP16DR

Ultra fast Plastic Power Rectifiers

VOLTAGE: 200V CURRENT:16.0A



PRELIMINARY

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

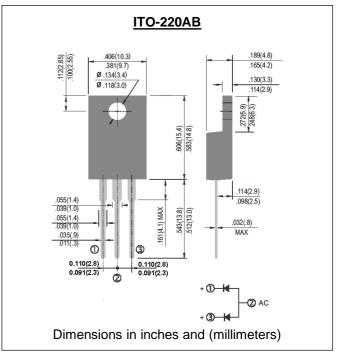
MECHANICAL DATA

Case: JEDEC ITO-220AB molded plastic body over passivated chip

Terminals: Plated Insert leads, solderable per

MIL-STD-750, Method 2026

Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

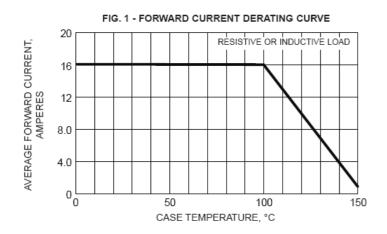
	SYMBOL	UERP16DR	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	16.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	200	А
Maximum Forward Voltage at rated Forward Current at 8A per leg	Vf	0.95	V
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical thermal resistance junction to case	R θ Jc	5.0	€\M
Maximum DC Reverse Current Ta =25°C	I.e.	10	μА
at rated DC blocking voltage Ta =125°C	lr	500	μA
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

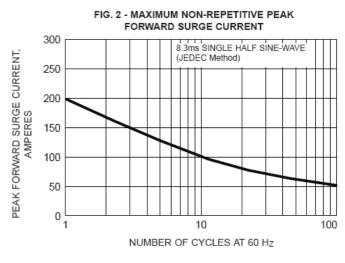
Note:

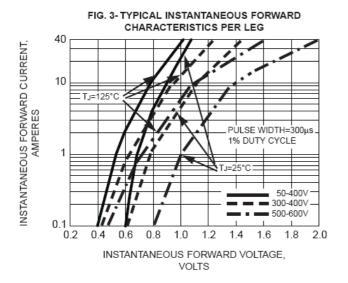
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

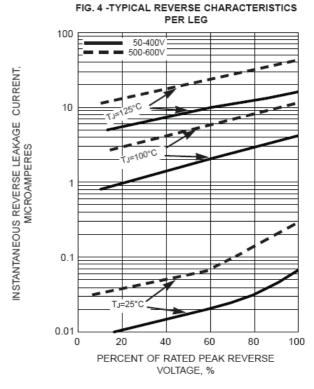
Rev.1 www.gulfsemi.com

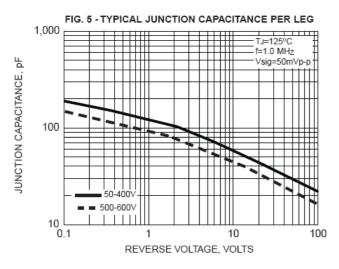
RATINGS AND CHARACTERISTIC CURVES UERP16DR











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