UGRP10F

Ultra fast Plastic Power Rectifiers

VOLTAGE: 300V CURRENT:10.0A



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

Two llast high terms are two switching

Excellent high temperature switching

Glass passivated junction

High voltage and high reliability

High speed switching

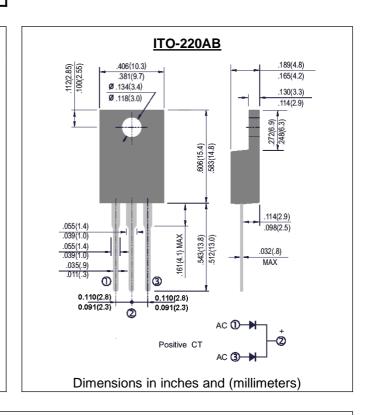
Low forward voltage

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)

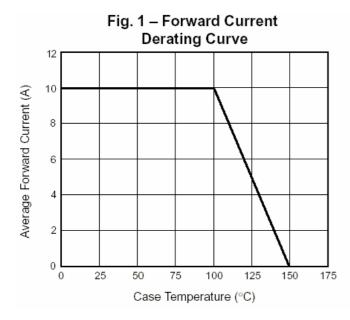
	SYMBOL	UGRP10F	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	300	V
Maximum RMS Voltage	Vrms	210	V
Maximum DC blocking Voltage	Vdc	300	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	10.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	100	А
Maximum Forward Voltage at Forward Current at 5A per leg	Vf	1.3	V
Maximum Reverse Recovery Time (Note 1)	Trr	20	nS
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	lr	10 200	μА
Typical thermal resistance junction to case	Rth(jc)	6.7	℃/W
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150	°C

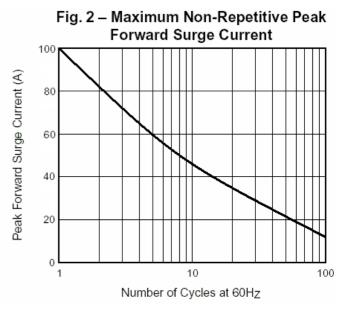
Note:

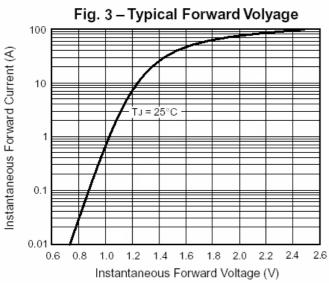
Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

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RATINGS AND CHARACTERISTIC CURVES UGRP10F







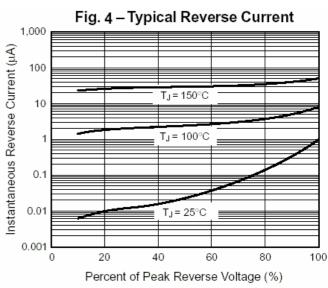
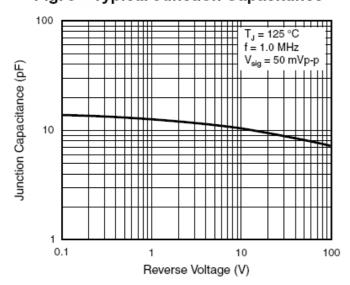


Fig. 5 - Typical Junction Capacitance



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