UGSP10J

Ultra fast Plastic Power Rectifiers

VOLTAGE: 600V 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
- Excellent high temperature switching
- Glass passivated junction
- •High voltage and high reliability
- · High speed switching
- Low forward voltage

MECHANICAL DATA

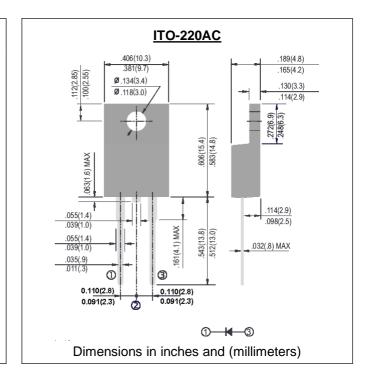
Case: JEDEC ITO-220AC molded plastic body over

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	UGSP10J	units
Vrrm	600	V
Vrms	420	V
Vdc	600	V
If(av)	10.0	А
lfsm	120	А
Vf	2.6	V
Trr	25	nS
R θ Jc	5.0	C/W
lr.	10	μА
"	500	μA
Tstg, Tj	-55 to +150	°C
	Vrrm Vrms Vdc If(av) Ifsm Vf Trr R 0 Jc Ir	Vrrm 600 Vrms 420 Vdc 600 If(av) 10.0 Ifsm 120 Vf 2.6 Trr 25 R θ Jc 5.0 Ir 500

Note:

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

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RATINGS AND CHARACTERISTIC CURVES UGSP10J

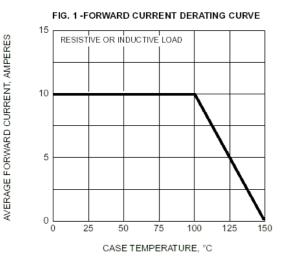


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

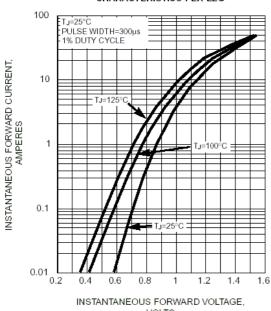


FIG. 5 - REVERSE SWITCHING CHARACTERISTICS

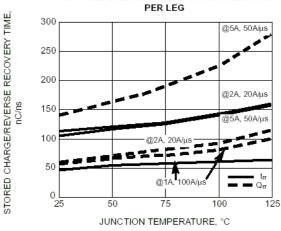


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

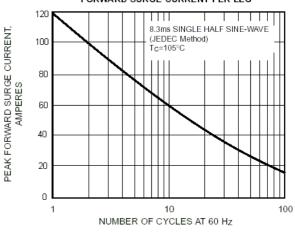


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG

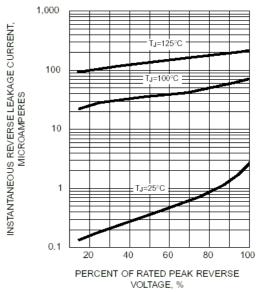
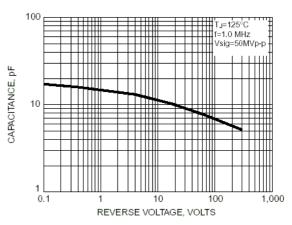


FIG. 6 - TYPICAL JUNCTION CAPACITANCE PER LEG



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