UESP05F

Ultra fast Plastic Power Rectifiers

VOLTAGE: 300V CURRENT: 5.0A

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 TO-220 molded plastic body over

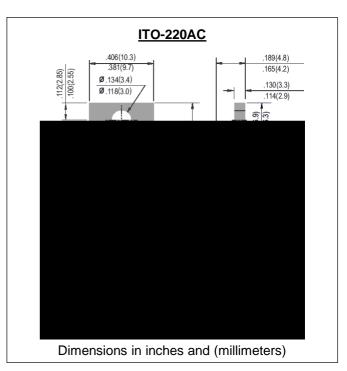
passivated chip

Terminals: Plated axial leads, solderable per

MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

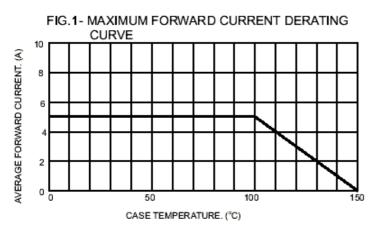
	SYMBOL	UESP05F	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	300	V
Maximum RMS Voltage	Vrms	210	V
Maximum DC blocking Voltage	Vdc	300	V
Maximum Average Forward Rectified at Tc =120°C	If(av)	5.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	125	А
Maximum Forward Voltage at rated Forward Current and 25°C at 5A	Vf	1.3	V
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical thermal resistance junction to case	Rth(jc)	5.0	€\M
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	lr	10 100	μΑ
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 UESP05F



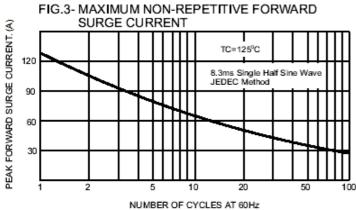


FIG.4- TYPICAL JUNCTION CAPACITANCE

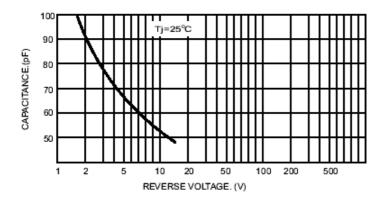


FIG.2 - TYPICAL REVERSE CHARACTERISTICS

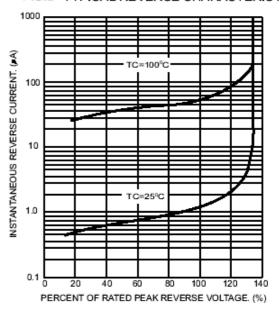


FIG.5-TYPICAL FORWARD CHARACTERISTICS

