FESA08G

Ultra fast Plastic Power Rectifiers

VOLTAGE: 400V CURRENT: 8.0A



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

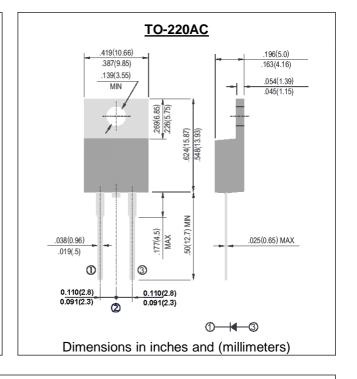
Case: JEDEC TO-220 molded plastic body over passivated chip

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	FESA08G	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	400	V
Maximum RMS Voltage	Vrms	280	V
Maximum DC blocking Voltage	Vdc	400	V
Maximum Average Forward Rectified at Tc =100°C	If(av)	8.0	Α
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load	lfsm	150	Α
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.3	V
Maximum Reverse Recovery Time (Note 1)	Trr	50	nS
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	5.0 200.0	μΑ
Typical thermal resistance junction to case	Rth(jc)	2.2	€/W
Typical junction capacitance (Note 2)	Cj	80	pF
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
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

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RATINGS AND CHARACTERISTIC CURVES FESA08G

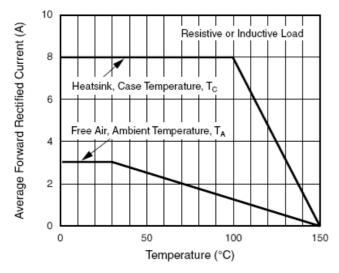


Figure 1. Maximum Forward Current Derating Curve

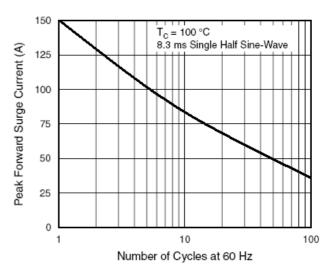


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

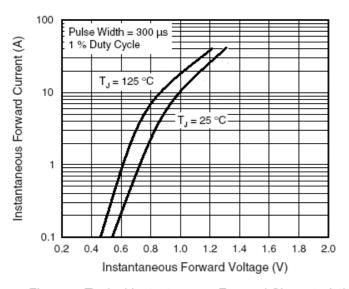


Figure 3. Typical Instantaneous Forward Characteristics

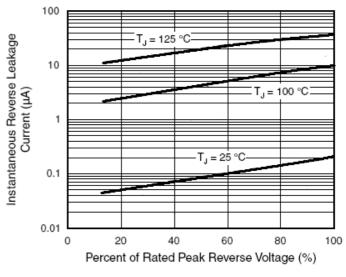


Figure 4. Typical Reverse Leakage Characteristics

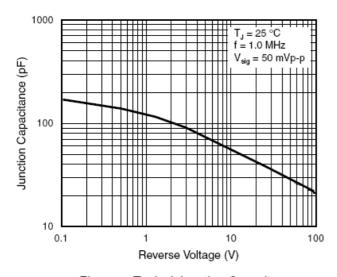


Figure 5. Typical Junction Capacitance

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