UESA16G

Ultra fast Plastic Power Rectifiers

VOLTAGE: 400V **CURRENT:16.0A**

GULF SEMI

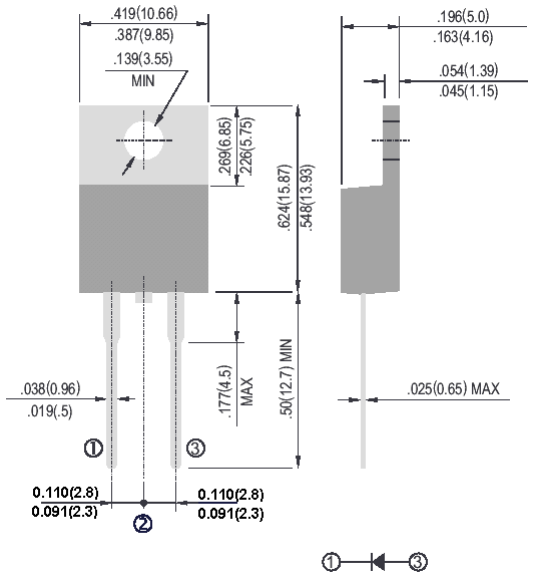
FEATURE

- 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-220AC 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

TO-220AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	UESA16G	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)	16.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	200	A
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.3	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	10 400	μA
Maximum Reverse Recovery Time (Note 1)	Trr	35	nS
Typical thermal resistance junction to case	Rth(jc)	1.0	℃/W
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

RATINGS AND CHARACTERISTIC CURVES UESA16G

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

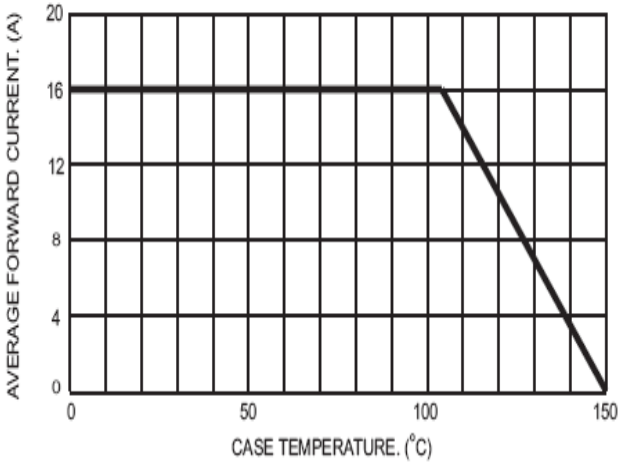


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

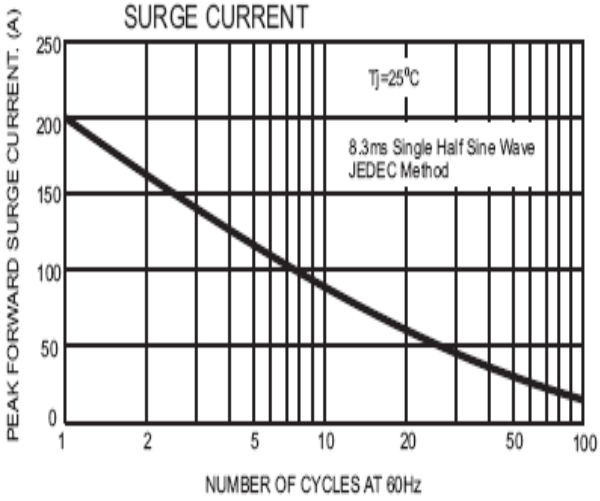


FIG.3- TYPICAL FORWARD CHARACTERISTICS

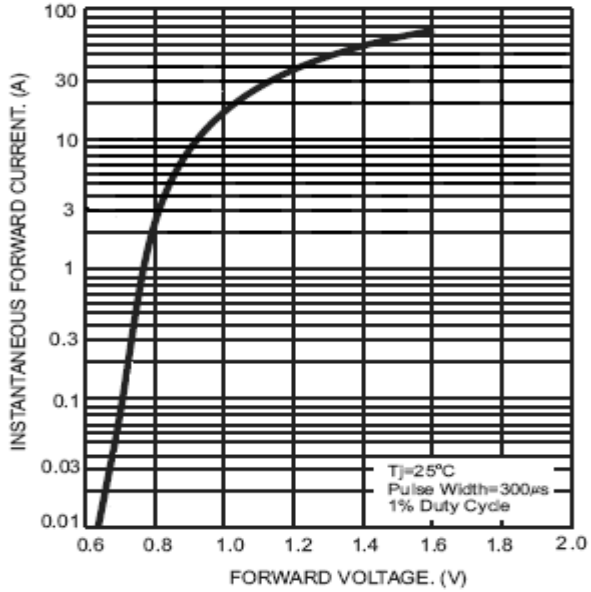


FIG.4- TYPICAL REVERSE CHARACTERISTICS

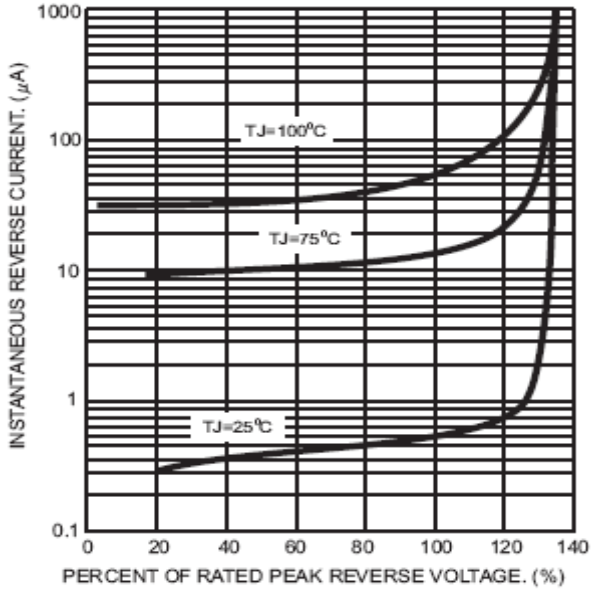


FIG.5- TYPICAL JUNCTION CAPACITANCE

