

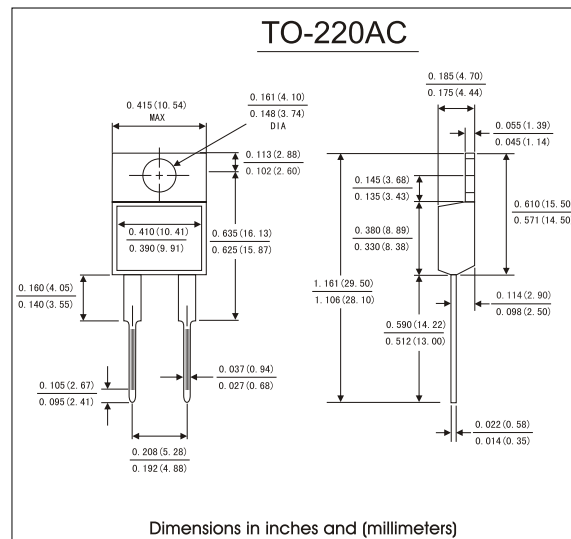
GLASS PASSIVATED SUPER FAST RECTIFIER

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed:260 °C/10 seconds, 0.25”(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: JEDEC TO-220AC molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- (Ratings at 25 °C ambient temperature unless otherwise specified, Single phase, half wave, resistive or inductive load. For capacitive load , derate by 20%.)

PARAMETER	Symbols	MUR860	Units
Maximum repetitive peak reverse voltage	V_{RRM}	600	Volts
Maximum RMS voltage	V_{RMS}	420	Volts
Maximum DC blocking voltage	V_{DC}	600	Volts
Maximum average forward rectified	$I_{(AV)}$	8.0	A mp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) at $T_L=70^{\circ}C$	I_{FSM}	125	Amps
Maximum Instantaneous Forward Voltage at 8.0 A	V_F	1.5	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_a=25^{\circ}C$	I_R	5
	$T_a=125^{\circ}C$		500
Maximum reverse recovery time(Note1)	T_{RR}	35	ns
Typical thermal resistance (Note2)	$R_{\theta JC}$	2.5	pF
Operating junction and storage temperature range	T_J/T_{STG}	-65 to +175	$^{\circ}C$

Notes:

1. Pulse test: 300 μs pulse width, 1% duty cycle
2. Reverse recovery test conditions $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.5A$
3. Thermal resistance from junction to case

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RATINGS AND CHARACTERISTIC CURVES MUR860

FIG.1-FORWARD CURRENT DERATING CURVE

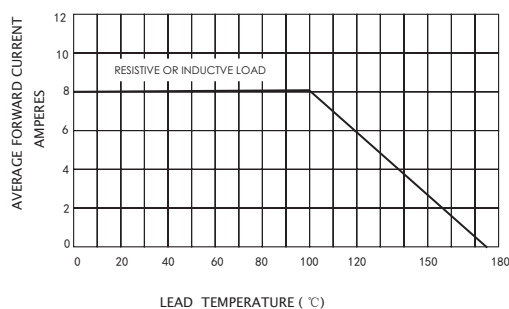


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

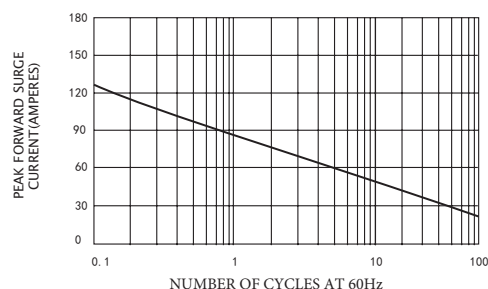


FIG.3-TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

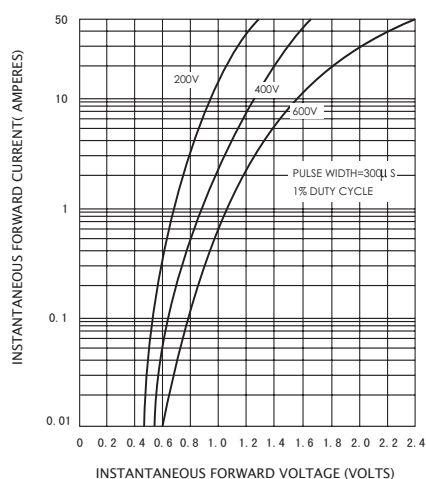


FIG.4-TYPICAL REVERSE CHARACTERISTICS

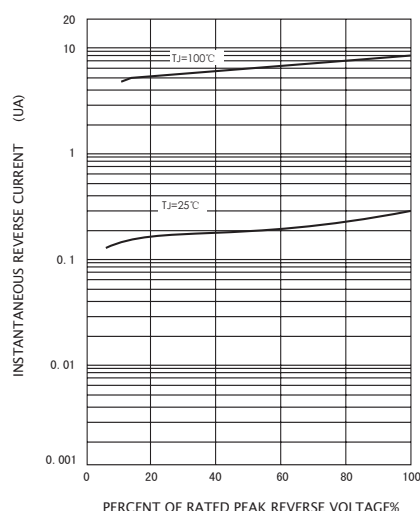


FIG.5-TYPICAL JUNCTION CAPACITANCE

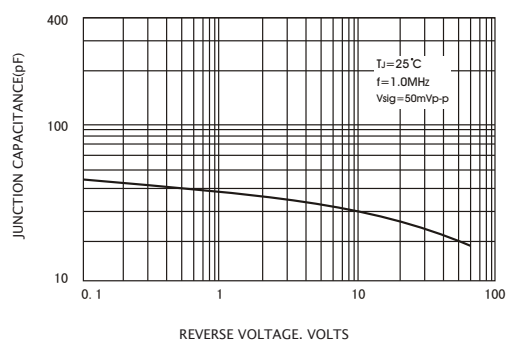
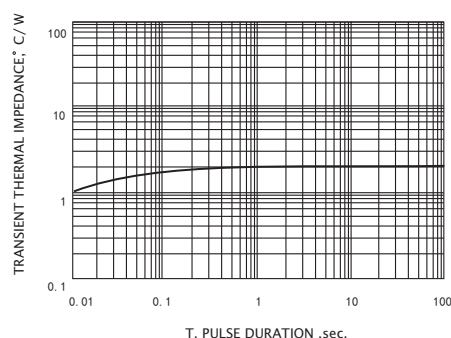


FIG.6-TYPICAL TRANSIENT THERMAL
IMPEDANCE



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.