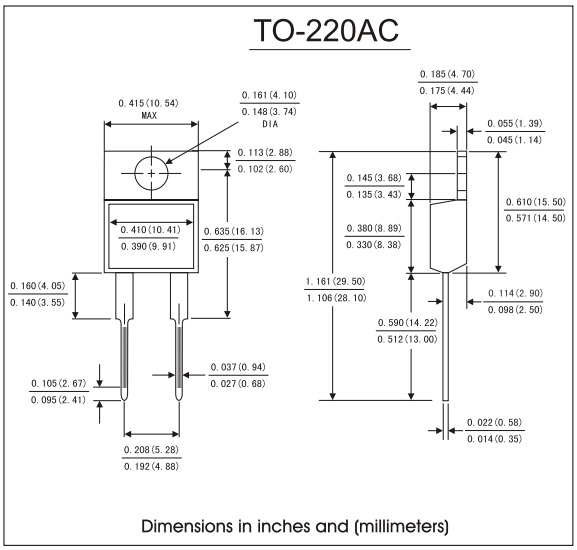
MUR860

Voltage Range - 600 V
Forward Current - 8 Ampere

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°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)	Ta=25 °C	I_R	5	µA
	Ta=125 °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	°C

Notes:
1. Pulse test: 300 µs pulse width, 1% duty cycle
2. Reverse recovery test conditions IF =0.5A, IR =1.0A, IRR =0.5A
3. Thermal resistance from junction to case

This PDF is a property of Master Instrument Corporation.
Email: sales@micindia.com Website: www.micindia.com

MUR860

Voltage Range - 600 V

Forward Current - 8 Ampere

GLASS PASSIVATED SUPER FAST RECTIFIER

RATINGS AND CHARACTERISTIC CURVES MUR860

FIG.1-FORWARD CURRENT DERATING CURVE

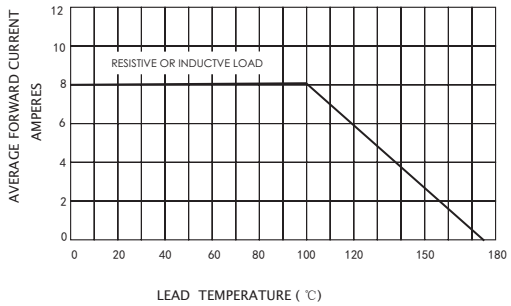


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

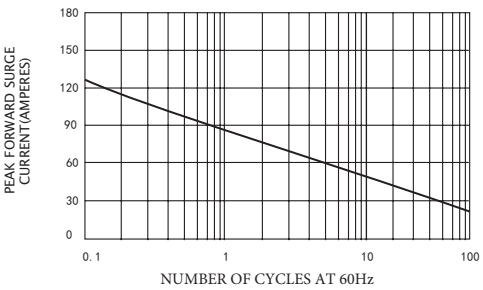


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

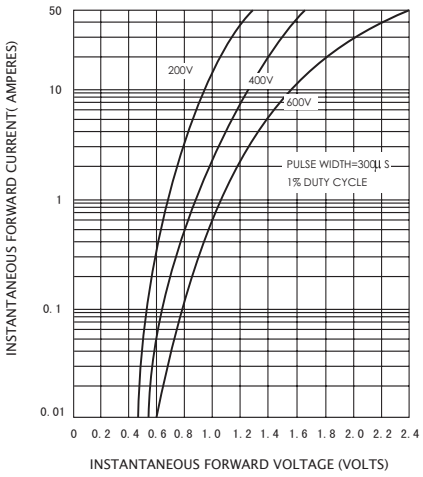


FIG.4-TYPICAL REVERSE CHARACTERISTICS

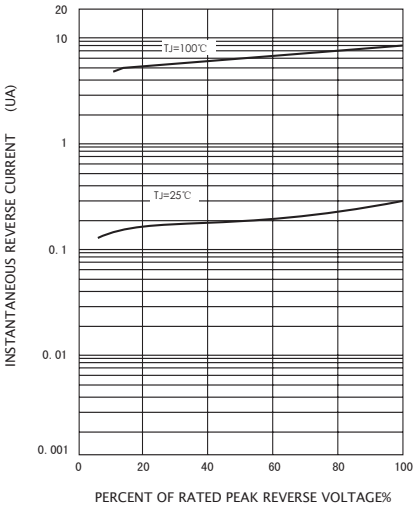


FIG.5-TYPICAL JUNCTION CAPACITANCE

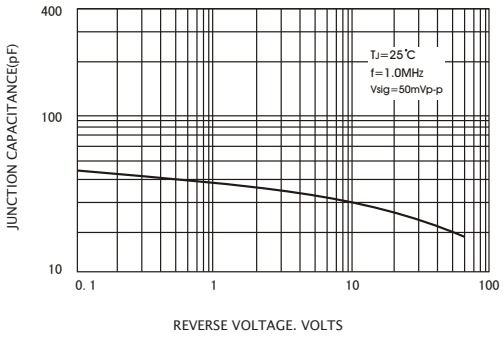
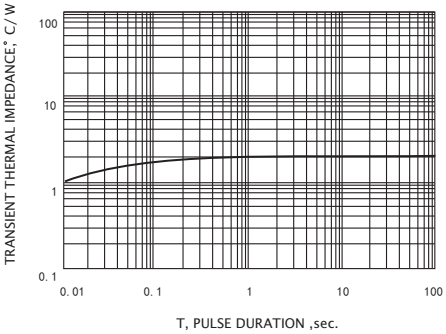


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



Disclaimer

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

This PDF is a property of Master Instrument Corporation.

Email: sales@micindia.com Website: www.micindia.com