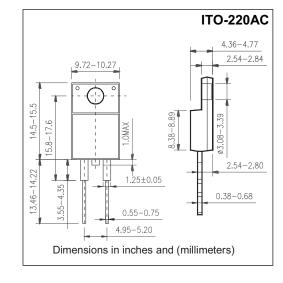


GLASS PASSIVATED SUPER FAST RECTIFIER

FEATURES

- High Performance & Reliability best suited for Automotive application
- 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 ITO-220AC molded plastic body

■ Terminals: Lead solderable per MIL-STD-750,method 2026

Polarity: As markedMounting 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%.

	Symbols	MURF 860	Units
Maximum repetitive peak reverse voltage	Vrrm	600	Volts
Maximum RMS voltage	VRMS	420	Volts
Maximum DC blocking voltage	VDC	600	Volts
Maximum average forward rectified	I(AV)	8.0	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	lfsm	125	Amps
Maximum Instantaneous Forward Voltage at 8.0 A	VF	1.5	Volts
Maximum instantaneous reverse Ta=25 °C	l _R	5	μΑ
current at rated DC blocking voltage(Note 1) Ta=125 °C		500	
Maximum reverse recovery time(Note1)	TRR	35	ns
Typical thermal resistance (Note2)	Reuc	2.5	pF
Operating junction and storage temperature range	TJ/TstG	-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

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



GLASS PASSIVATED SUPER FAST RECTIFIER

RATINGS AND CHARACTERISTIC CURVES MURF860

FIG.1-FORWARD CURRENT DERATING CURVE

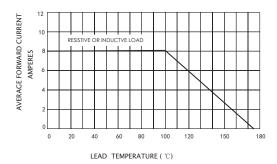


FIG.2-MAXIMUM NON-REPETITIVE PEAK

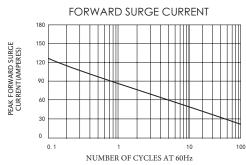


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

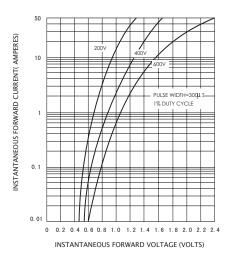


FIG.4-TYPICAL REVERSE CHARACTERISTICS

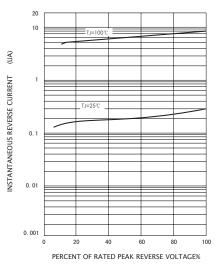


FIG.5-TYPICAL JUNCTION CAPACITANCE

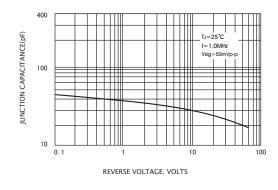
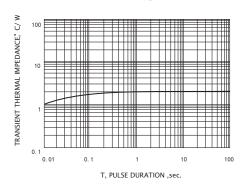


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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