GLASS PASSIVATED SUPER FAST RECTIFIER

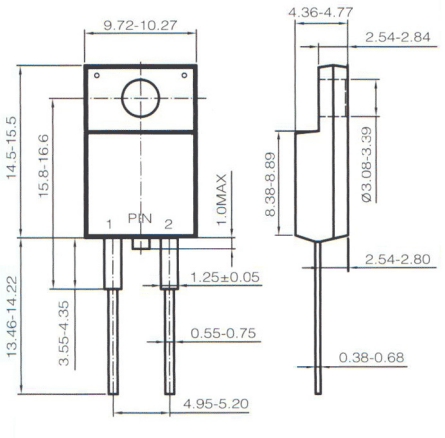
MURF860

VOLTAGE RANGE - 600 V
CURRENT - 8 A

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

ITO-220AC



Dimensions in inches and (millimeters)

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%.

		Symbols	MURF 860	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	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	100	Amps
Maximum Instantaneous Forward Voltage at 10.0 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 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 MURF860

FIG.1-FORWARD CURRENT
DERATING CURVE

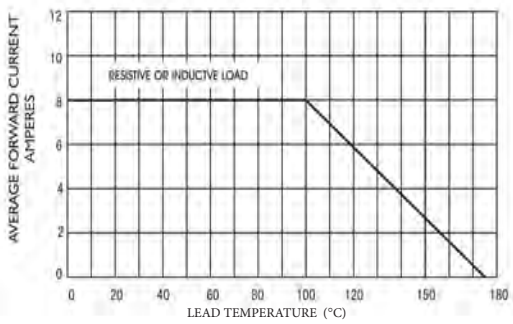


FIG.2- MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

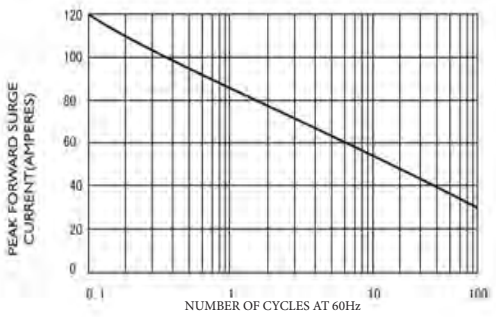


FIG.3-TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

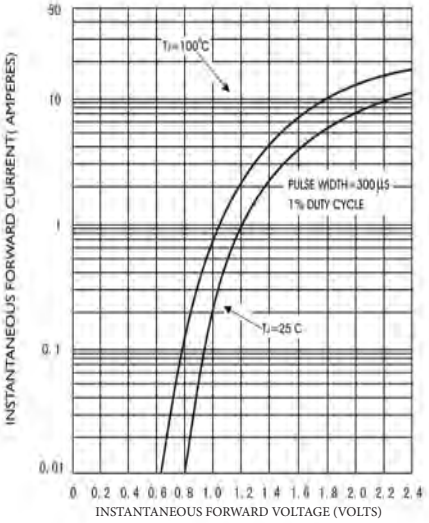


FIG.4-TYPICAL REVERSE CHARACTERISTICS

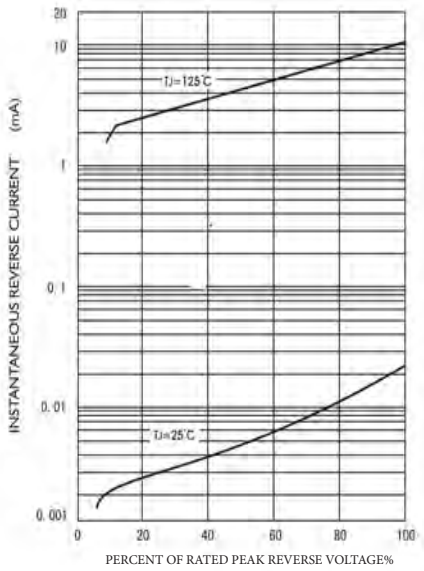


FIG.5-TYPICAL JUNCTION CAPACITANCE

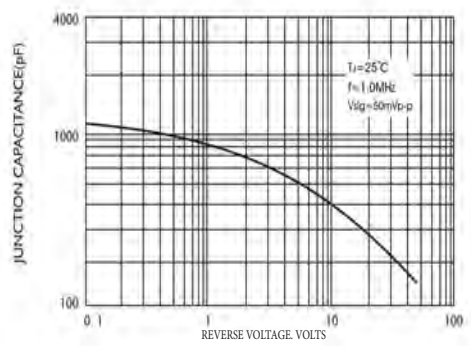
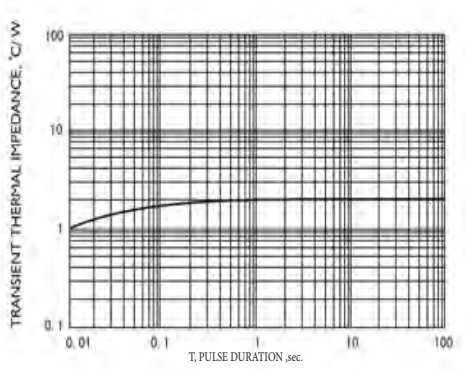


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCEE



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