

# MURF820thru MURF860

## SUPER FAST RECTIFIERS VOLTAGE RANGE

200 to 600 Volts

## CURRENT

8.0 Ampere



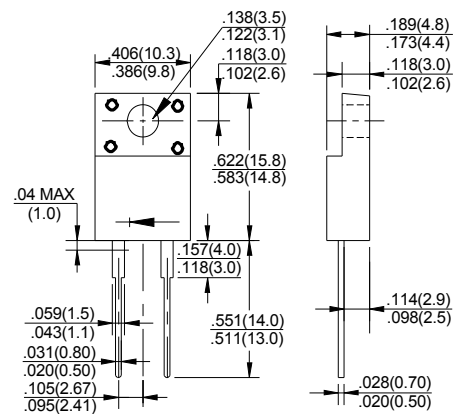
ITO-220AC

## FEATURES

- Super fast switching time for high efficiency
- Low forward voltage drop
- High current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

## MECHANICAL DATA

- Case: ITO-220AC molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Mounting position :Any
- Weight: 1.559grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave ,60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	MURF820	MURF840	MURF860	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	200	400	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	140	280	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	400	600	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =75 °C	I <sub>(AV)</sub>	8.0			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I <sub>FSM</sub>	125			A
Peak Instantaneous Forward Voltage at 8.0A DC	V <sub>F</sub>	1.0	1.3	1.7	V
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =100°C	I <sub>R</sub>	10 150			µA
Maximum Reverse Recovery Time(Note1)	T <sub>RR</sub>	35			nS
Typical Junction Capacitance (Note2)	C <sub>J</sub>	40			pF
Typical Thermal Resistance (Note3)	R <sub>θJA</sub>	5			°C/W
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to + 150			°C

NOTES:1. Measured with I<sub>F</sub>=0.5A,I<sub>R</sub>=1A,I<sub>RR</sub>=0.25A

2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.

3. Thermal resistance junction to ambient

4. The typical data above is for reference only(典型值仅供参考).

**RATING AND CHARACTERISTIC CURVES**

**MURF820 thru MURF860**

FIG.1- TYPICAL FORWARD CURRENT DERATING CURVE

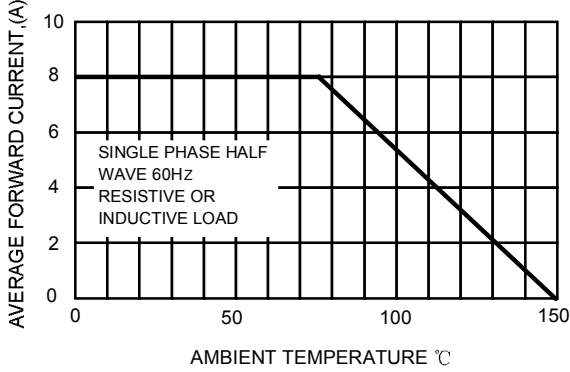


FIG.2-TYPICAL REVERSE CHARACTERISTICS

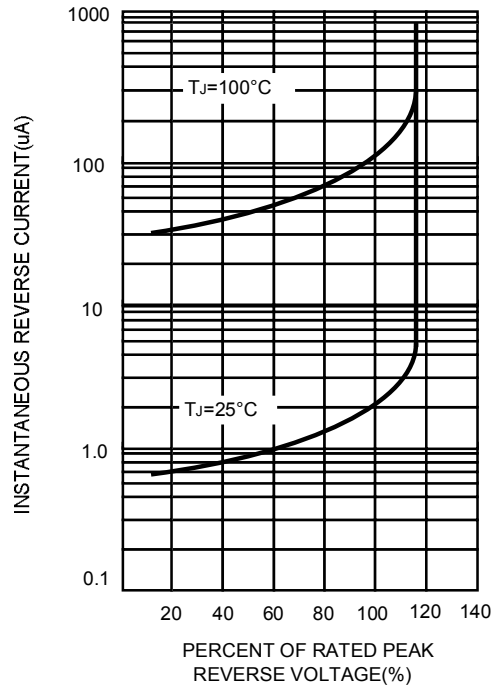


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

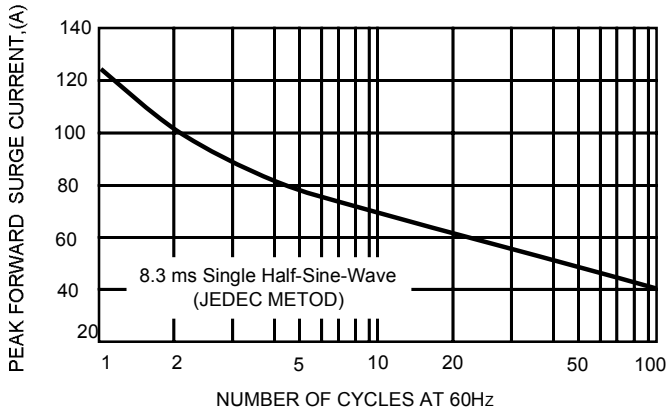


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

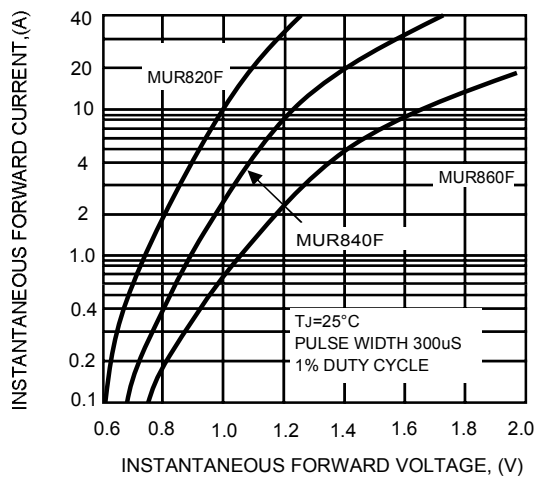
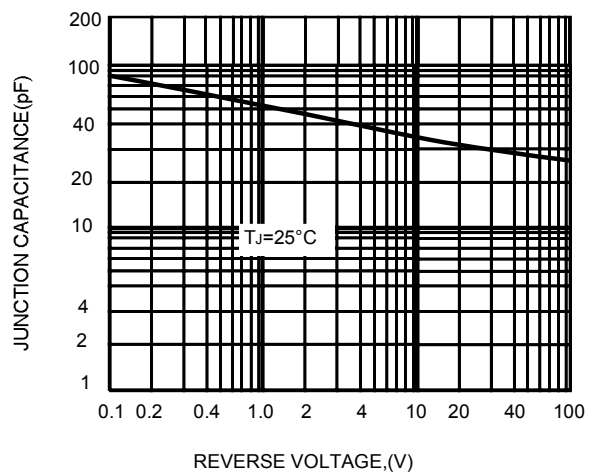


FIG.5-TYPICAL JUNCTION CAPACITANCE



The curve graph is for reference only, can't be the basis for judgment