

CURRENT 8 Ampere  
VOLTAGE RANG 200 to 1000 Volts

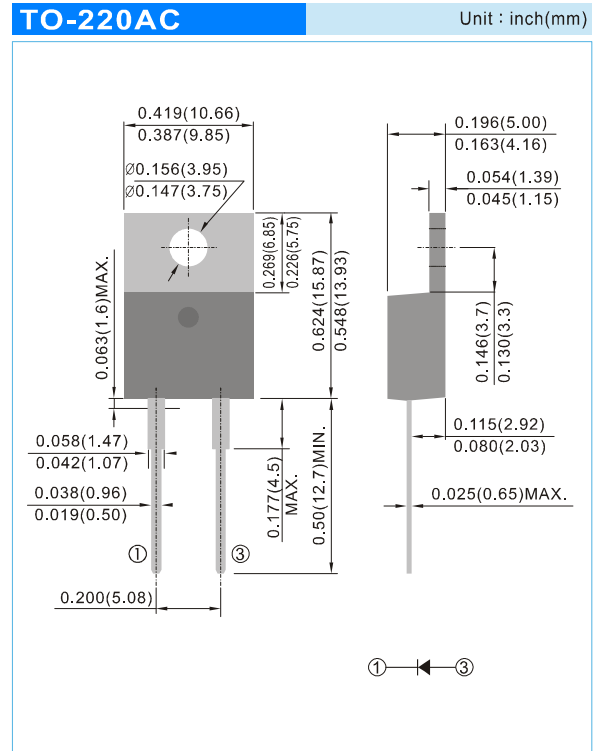
## MUR820AC THRU MUR8100AC

### FEATURES

- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Hermetically sealed.
- Low leakage.
- High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### MECHANICAL DATA

- Case: Molded plastic, TO-220AC
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: As marking
- Weight: 0.067 ounces, 1.89 grams.



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	MUR 820AC	MUR 840AC	MUR 860AC	MUR 880AC	MUR 8100AC	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	200	400	600	800	1000	V
Maximum Average Forward Current at $T_c=75^\circ\text{C}$	$I_{F(AV)}$	8					A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	125					A
Maximum Forward Voltage at 8A (Note 1)	$V_F$	0.95	1.3	1.5	1.7	1.9	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_j=25^\circ\text{C}$ $T_j=100^\circ\text{C}$	$I_R$	10 300					$\mu\text{A}$
Maximum Reverse Recovery Time (Note 1)	$t_{rr}$	35			50		ns
Typical Junction Capacitance (Note 2)	$C_J$	65					pF
Typical thermal Resistance (Note 3)	$R_{\theta JC}$	3					$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150					$^\circ\text{C}$

#### NOTES :

1. Pulse Test with  $PW=300\mu\text{sec}$ , 2% Duty Cycle.
2. Reverse Recovery Tset Conditions :  $I_F=0.5A, I_R=1A, I_{rr}=0.25A$
3. Mounted on P.C. Board with  $14\text{mm}^2$  (0.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

