

MUR8100

ULTRAFAST RECTIFIER VOLTAGE RANGE 1000 Volts CURRENT 8.0 Amperes

FEATURES

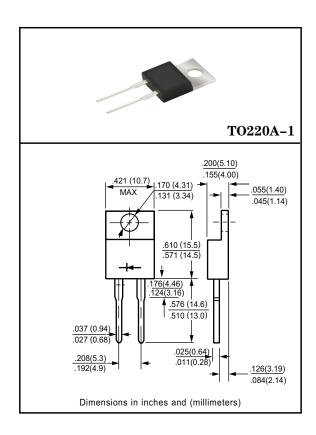
- * High reliability
- * Low leakage
- * Low forward voltage
- * High current capability
- * Ultrafast switching speed
- * Highsurge capability
- * Good for switching mode circuit

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Polarity: As marked

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

| • | | | |
|--|------------------|--------------|-------|
| RATINGS | SYMBOL | MUR8100 | |
| Maximum Recurrent Peak Reverse Voltage | VRRM | 1000 | Volts |
| Maximum RMS Voltage | VRMS | 700 | Volts |
| Maximum DC Blocking Voltage | VDC | 1000 | Volts |
| Maximum Average Forward Rectified Current TC = 110°C (Note 1) | lo | 8.0 | Amps |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM | 125 | Amps |
| Typical Current Squared Time | l ² t | 64.84 | |
| Typical Thermal Resistanc | RθJC | 3.5 | °C/W |
| Operating and Storage Temperature Range | ТJ, Tsтg | -55 to + 150 | ٥C |

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

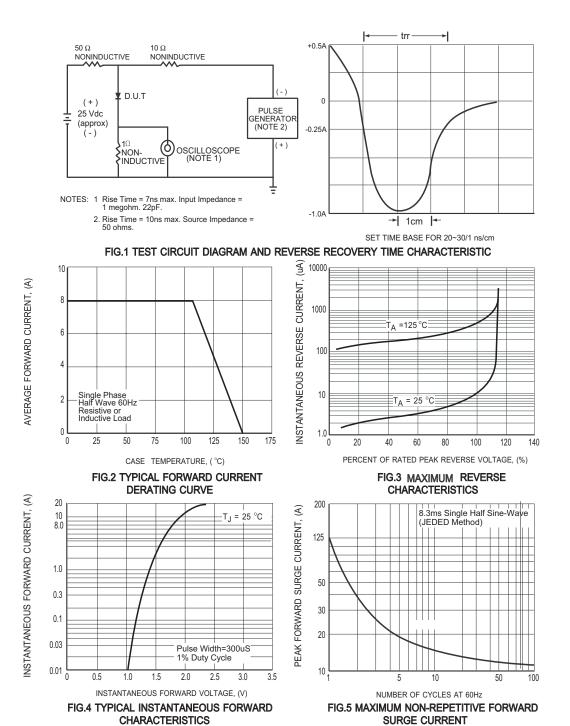
| CHARACTERISTICS | | SYMBOL | MUR8100 | | |
|--|-------------|--------|---------|-------|--|
| Maximum Instantaneous Forward Voltage at 8.0A DC | | VF | 1.8 | | |
| Maximum DC Reverse Current | @TA = 25°C | In . | 10 | uAmps | |
| at Rated DC Blocking Voltage | @Ta = 125°C | lR . | 500 | | |
| Maximum Reverse Recovery Time (Note 2) | | trr | 75 | | |

NOTES: 1.Case Temperature Measured at Metal Tab.

2.Test Conditions: IF = 0.5A, IR = -1.0A, IRR = -0.25A \cdot

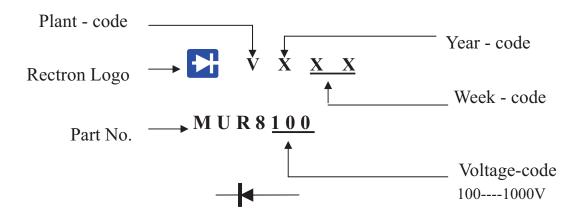
3.Suffix "R" = Common Anode.

RATING AND CHARACTERISTICS CURVES (MUR8100)





Marking on the body



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

| PACKAGE | PACKING CODE | EA PER BOX | INNER BOX SIZE (mm) | CARTON SIZE (mm) | EA PER CARTON | WEIGHT(Kg) |
|---------------------|--------------|------------|---------------------|------------------|---------------|------------|
| (I)TO-220/TO-220(A) | -C | 2,000 | 550*140*92 | 572*308*120 | 4,000 | 11.80 |

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