

**ULTRAFAST RECTIFIER**

**VOLTAGE RANGE 200 to 600 Volts CURRENT 2.0 Amperes**

**FEATURES**

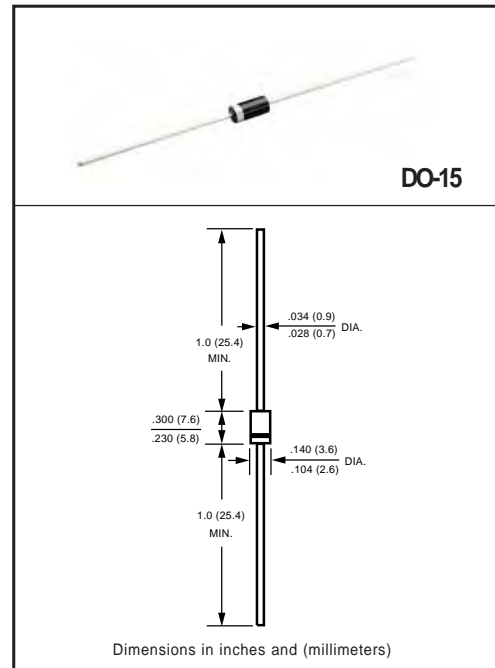
- \* High reliability
- \* Low leakage
- \* Low forward voltage
- \* High current capability
- \* Ultrafast switching speed
- \* High surge capability
- \* Good for switching mode circuit

**MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.35 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °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** (@ T<sub>A</sub>=25 °C unless otherwise noted)

| RATINGS   | SYMBOL                            | MUR220       | MUR240 | MUR260 | UNITS               |
|---|-----------------------------------|--------------|--------|--------|---------------------|
| Maximum Recurrent Peak Reverse Voltage  | V <sub>RRM</sub>                  | 200          | 400    | 600    | Volts               |
| Maximum RMS Voltage   | V <sub>RMS</sub>                  | 140          | 280    | 420    | Volts               |
| Maximum DC Blocking Voltage   | V <sub>DC</sub>                   | 200          | 400    | 600    | Volts               |
| Maximum Average Forward Rectified Current at T <sub>A</sub> =55°C                                 | I <sub>O</sub>                    | 2.0          |        |        | Amps                |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I <sub>FSM</sub>                  | 35           |        |        | Amps                |
| Current Squared Time  | I <sup>2</sup> t                  | 5.08         |        |        | A <sup>2</sup> /Sec |
| Operating and Storage Temperature Range   | T <sub>J</sub> , T <sub>STG</sub> | -55 to + 150 |        |        | °C                  |

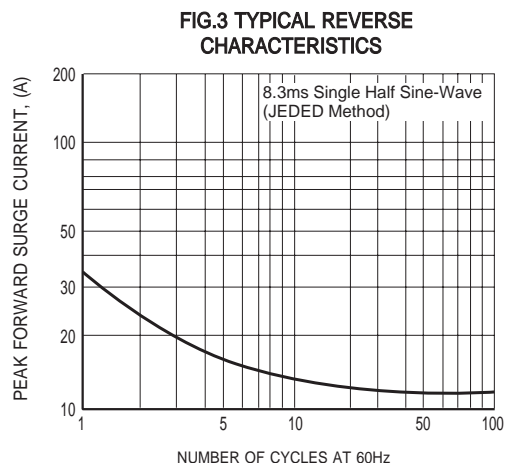
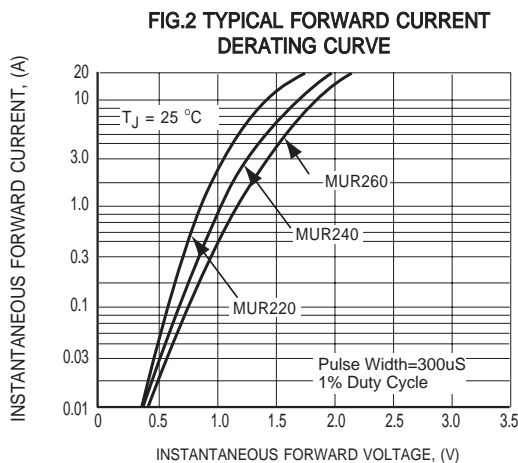
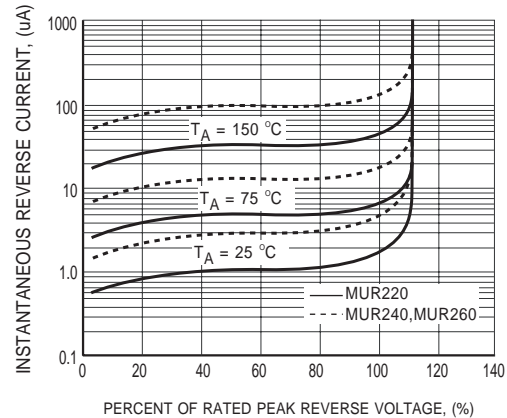
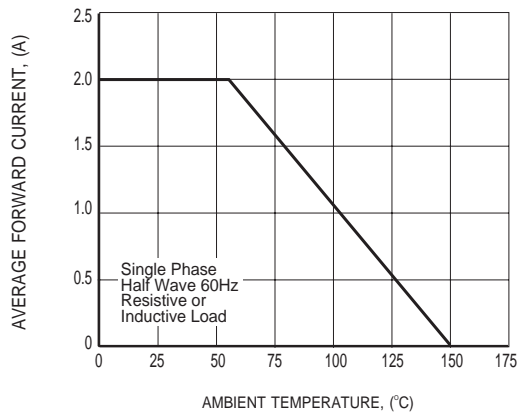
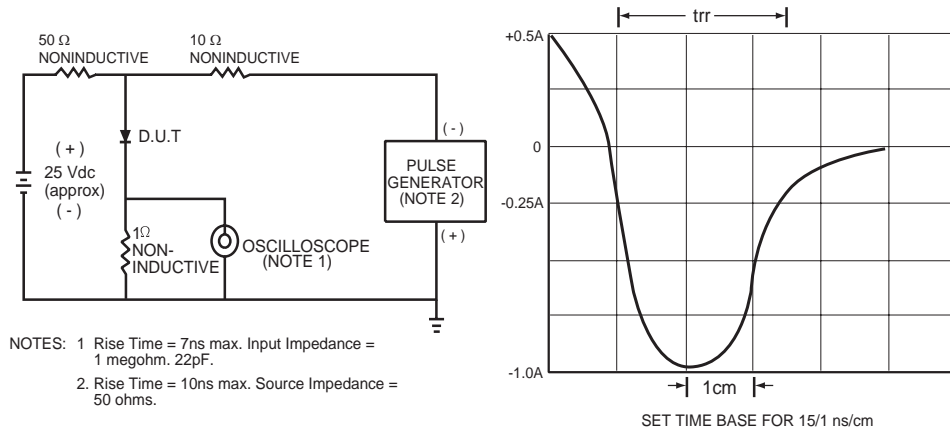
**ELECTRICAL CHARACTERISTICS**(@T<sub>A</sub>=25 °C unless otherwise noted)

| CHARACTERISTICS  |                         | SYMBOL          | MUR220 | MUR240 | MUR260 | UNITS |
|--|-------------------------|-----------------|--------|--------|--------|-------|
| Maximum Instantaneous Forward Voltage at 2.0A DC           |                         | V <sub>F</sub>  | 0.95   | 1.30   | 1.35   | Volts |
| Maximum DC Reverse Current<br>at Rated DC Blocking Voltage | @T <sub>J</sub> = 25°C  | I <sub>R</sub>  | 2.0    | 5.0    |        | uAmps |
|  | @T <sub>J</sub> = 150°C |                 | 50     | 150    |        |       |
| Maximum Reverse Recovery Time (Note 1)                     |                         | t <sub>rr</sub> | 25     | 50     |        | nSec  |

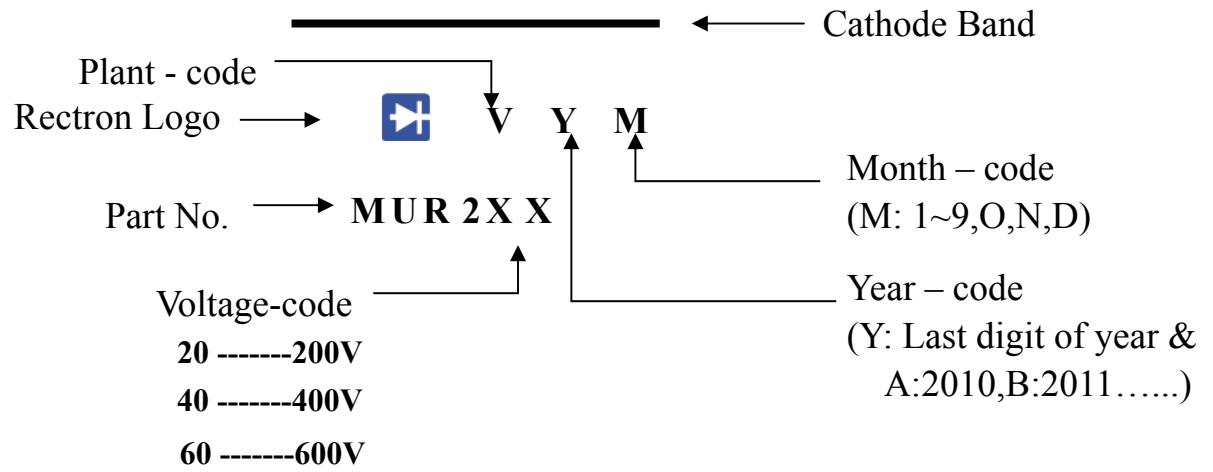
NOTES : 1. Test Conditions: I<sub>F</sub> = 0.5A, I<sub>R</sub> = -1.0A, I<sub>RR</sub> = -0.25A  
2. "Fully ROHS complaint", "100% Sn plating (Pb-free)"  
3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2010-05  
REV: A

## RATING AND CHARACTERISTICS CURVES ( MUR220 THRU MUR260 )



## Marking on the body



## PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### BULK PACK

| PACKAGE | PACKING CODE | EA PER BOX | INNER BOX SIZE (mm) | CARTON SIZE (mm) | EA PER CARTON | GROSS WEIGHT(Kg) |
|---------|--------------|------------|---------------------|------------------|---------------|------------------|
| DO-15   | -B           | 500        | 194*84*21           | 415*220*255      | 25,000        | 12.74            |

### REEL PACK

| PACKAGE | PACKING CODE | EA PER REEL | EA PER INNER BOX | COMPONENT SPACE (mm) | TAPE SPACE (mm) | REEL DIA (mm) | CARTON SIZE (mm) | EA PER CARTON | GROSS WEIGHT(Kg) |
|---------|--------------|-------------|------------------|----------------------|-----------------|---------------|------------------|---------------|------------------|
| DO-15   | -T           | 4,000       | 4,000            | 5.0                  | 52              | 330           | 355*350*335      | 16,000        | 10.05            |

### AMMO PACK

| PACKAGE | PACKING CODE | REEL ( EA ) | COMPONENT SPACE(mm) | TAPE SPACE (mm) | BOX SIZE (mm) | CARTON SIZE(mm) | CARTON ( EA ) | GROSS WEIGHT (Kg) |
|---------|--------------|-------------|---------------------|-----------------|---------------|-----------------|---------------|-------------------|
| DO-15   | -F           | 1,500       | 5.0                 | 52              | 255*73*100    | 400*268*225     | 15,000        | 8.8               |

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