

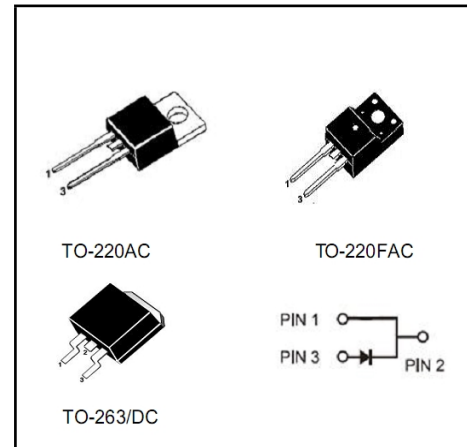
**ULTRAFST RECOVERY RECTIFIERS**
**Reverse Voltage - 600 V**
**Forward Current - 8 A**

**FEATURES**

- ◆High speed switching capability
- ◆High current capability
- ◆High forward surge capability
- ◆Low power losses · High efficiency
- ◆For use in low voltage, high frequency inverters
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

- ◆Case: TO-220AC TO-220FAC TO-263/DC
- ◆Solder bath temperature 275°C maximum, 10s per JESD22-106


**Primary Characteristic**

|                          |              |
|--------------------------|--------------|
| <b>I<sub>o</sub></b>     | <b>8A</b>    |
| <b>V<sub>RRM</sub></b>   | <b>600V</b>  |
| <b>I<sub>FSM</sub></b>   | <b>110A</b>  |
| <b>V<sub>F</sub></b>     | <b>1.1V</b>  |
| <b>T<sub>J</sub> Max</b> | <b>150°C</b> |

**Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified**

| Parameter   | Symbols                                 | Value      | Units       |
|---|---|------------|-------------|
| Maximum Repetitive Peak Reverse Voltage                         | <b>V<sub>RRM</sub></b>                  | 600        | <b>V</b>    |
| Maximum RMS voltage   | <b>V<sub>RMS</sub></b>                  | 600        | <b>V</b>    |
| Maximum DC Blocking Voltage                                     | <b>V<sub>DC</sub></b>                   | 600        | <b>V</b>    |
| Maximum Average Forward Rectified Current                       | <b>I<sub>o</sub></b>                    | 8          | <b>A</b>    |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave         | <b>I<sub>FSM</sub></b>                  | 110        | <b>A</b>    |
| Operating Temperature Range                                     | <b>T<sub>J</sub></b>                    | -40 ~ +150 | <b>°C</b>   |
| Storage Temperature Range                                       | <b>T<sub>STG</sub></b>                  | -40 ~ +150 | <b>°C</b>   |
| Typical Thermal Resistance (Note1) TO-220AC TO-263/DC TO-220FAC | <b>R<sub>θJA</sub>/ R<sub>θJC</sub></b> | 2/4        | <b>°C/W</b> |

**Note1: Thermal resistance from Junction to case per leg mounted on heatsink.**
**Electrical Characteristics (Per Leg) unless otherwise specified**

| Characteristics  | Symbols               | Value    |      | Units     |
|--|-----------------------|----------|------|-----------|
|  |                       | Typ      | Max  |           |
| Forward Voltage Drop(Note2)                                | <b>V<sub>F</sub></b>  | 1.10     | -    | <b>V</b>  |
| at IF=3A   |                       |          |      |           |
|  |                       | TA=125°C |      |           |
| at IF=5A   |                       | TA=25°C  |      |           |
|  |                       | TA=125°C |      |           |
| at IF=8A   |                       | TA=25°C  | 1.27 |           |
|  | TA=125°C              | 1.11     | -    |           |
| Maximum Reverse Current at V <sub>R</sub> =600V            | <b>I<sub>R</sub></b>  | 0.5      | 1    | <b>uA</b> |
|  |                       | 15       | -    | <b>uA</b> |
| Maximum Reverse Recovery Time at IF=0.5A, IR=1A, IRR=0.25A | <b>T<sub>RR</sub></b> | -        | 35   | <b>nS</b> |

**Note2:Pulse test: 300 μs pulse width, 1 % duty cycle**

**RATINGS AND CHARACTERISTIC CURVES**

FIG. 1 MAXIMUM FORWARD CURRENT DERATING CURVE

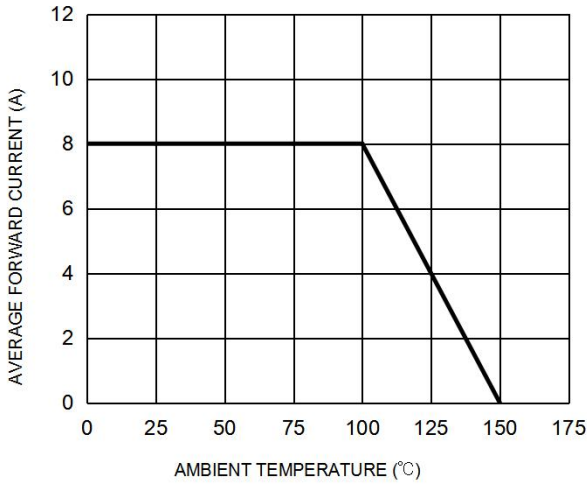


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

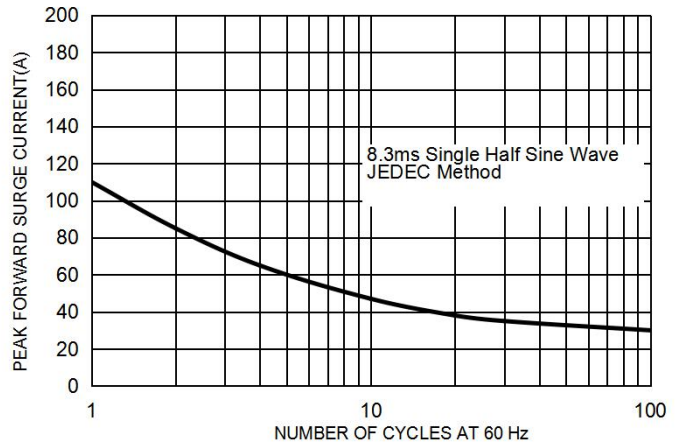


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

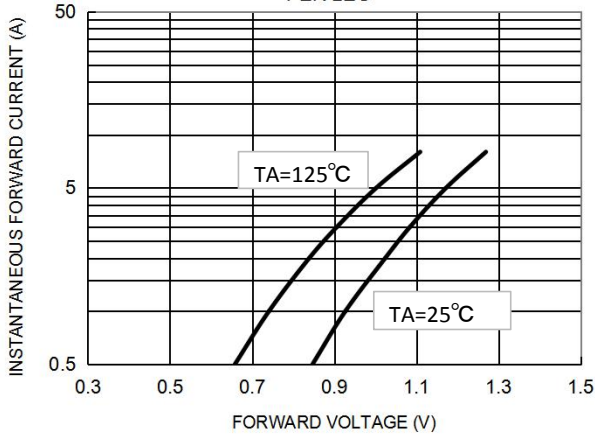
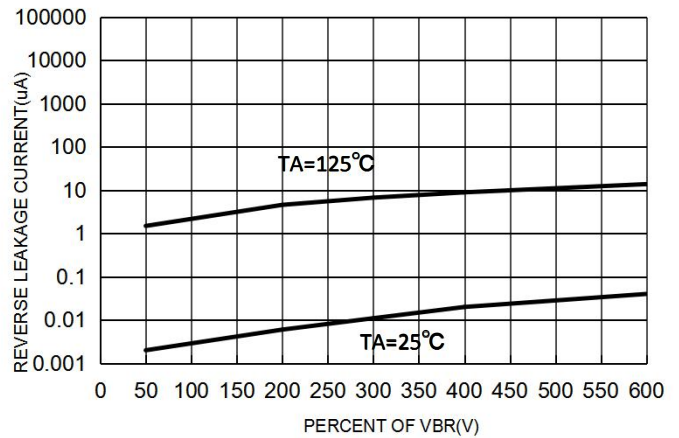
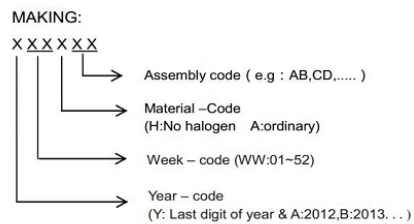
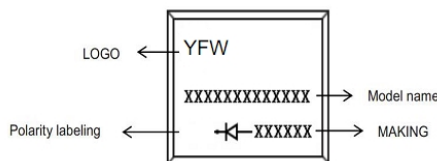


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



**Marking on the body**



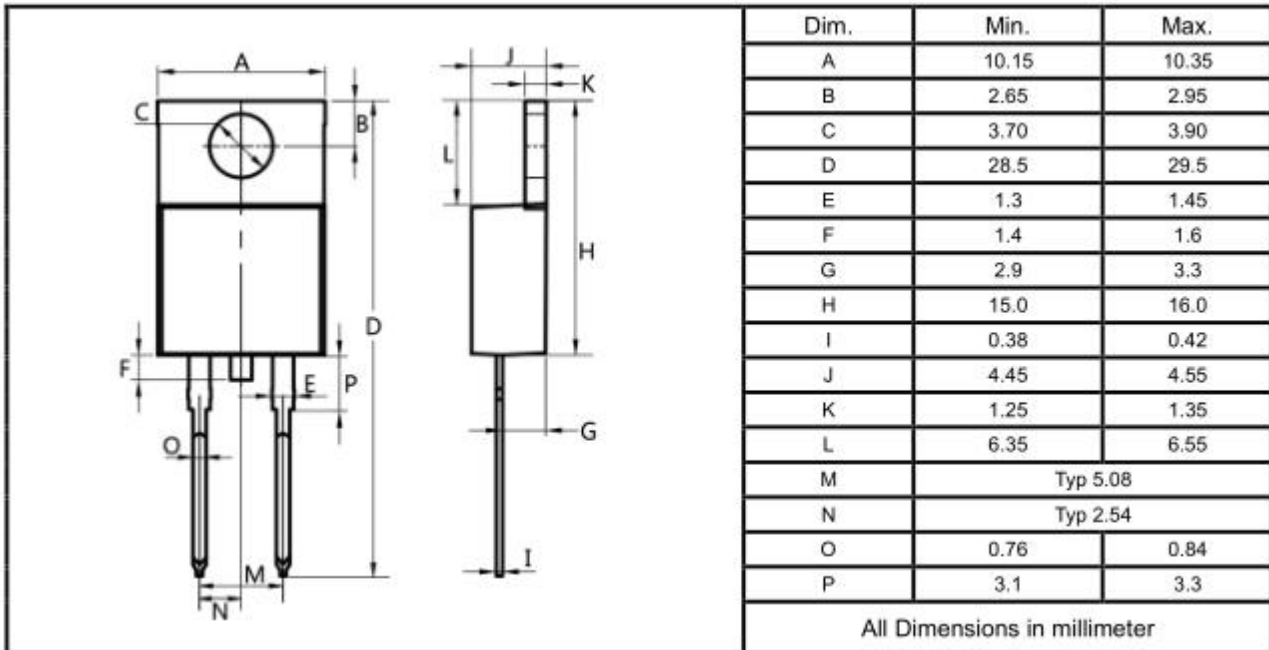
**Ordering information**

| Part Number | Package   | Unit Weight   | Base Quantity  | Delivery mode              |
|-------------|-----------|---------------|----------------|----------------------------|
| MUR860      | TO-220AC  | 0.067oz(1.9g) | 50 pcs / tube  | 1000pcs/box 5000pcs/carton |
| MUR860FAC   | TO-220FAC | 0.06oz(1.7g)  | 50 pcs / tube  | 1000pcs/box 5000pcs/carton |
| MUR860DC    | TO-263    | 0.04oz(1.16g) | 50 pcs / tube  | 1000pcs/box 5000pcs/carton |
| MUR860DC-R  | TO-263    | 0.04oz(1.16g) | 800 pcs / reel | 800pcs/box4000pcs/carton   |

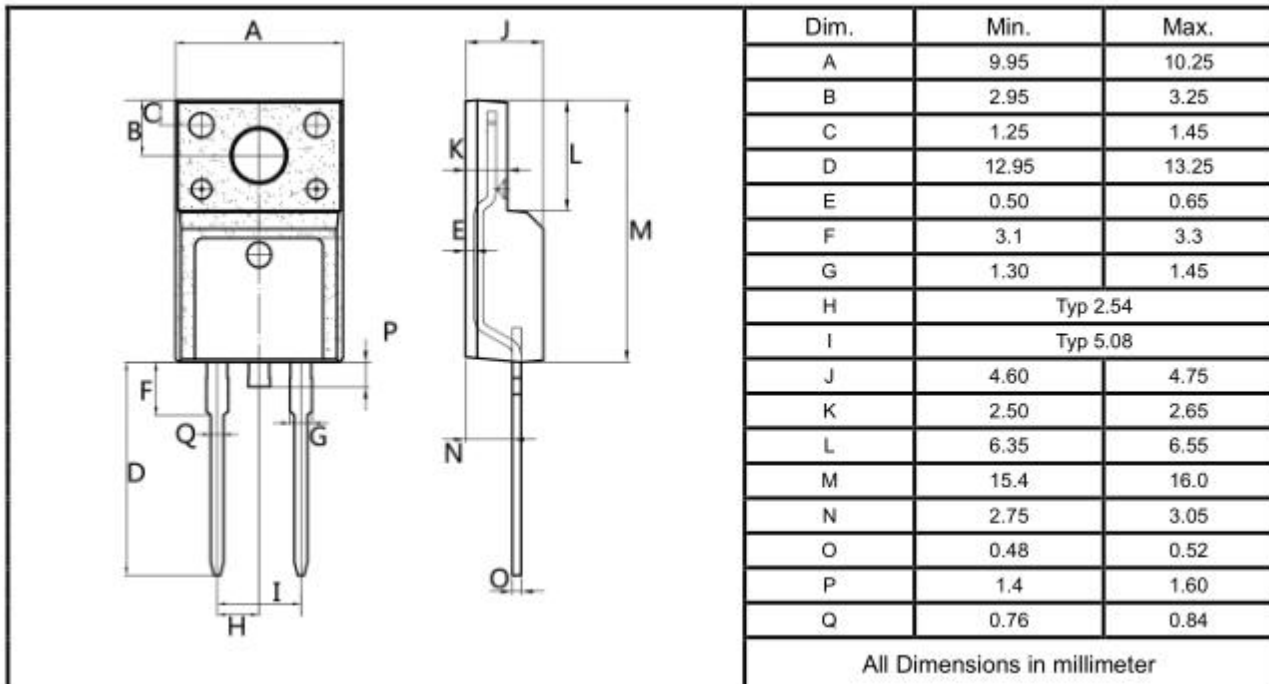
Note: For Halogen Free molding compound, add "H" suffix to part number above.

Package Outline Dimensions millimeters

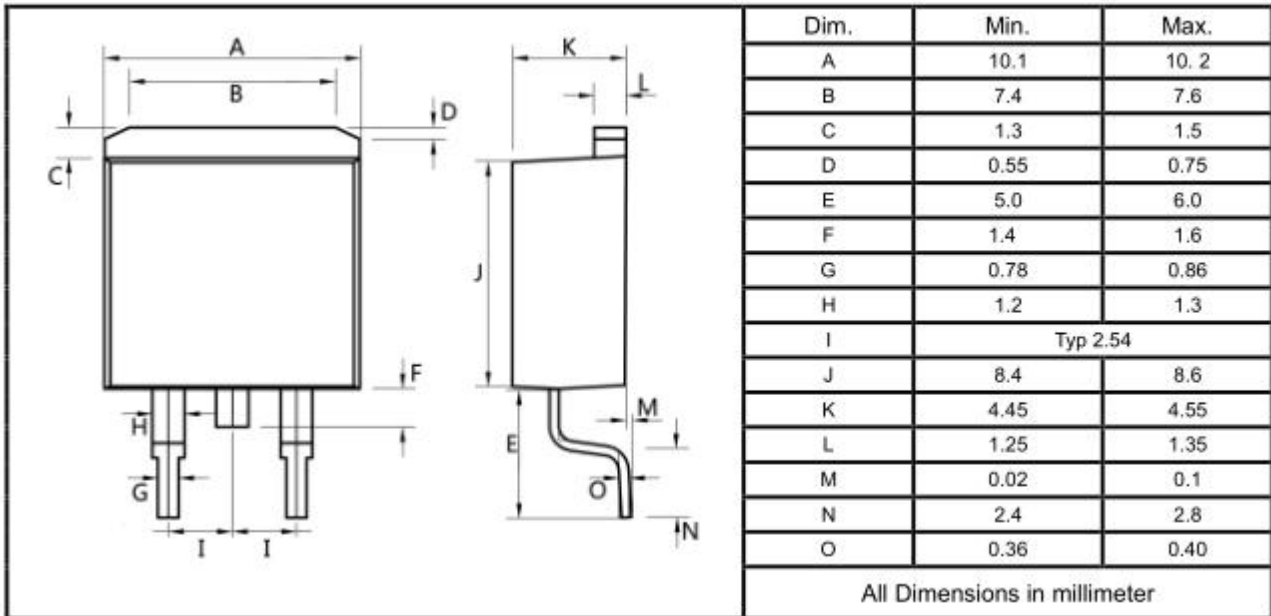
**TO-220AC**



**TO-220FAC**



TO-263



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