



MUR860 / MUR860D / MUR860F / MUR860S SUPERFAST RECOVERY RECTIFIERS Voltage 600 V Current 8 A MUR860 TO-220AC **Features** • Superfast recovery times-epitaxial construction Low forward voltage, high current capability Hermetically sealed. Low leakage MUR860F ITO-220AC High surge capacity Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound • Lead free in compliance with EU RoHS 2011/65/EU directive Green molding compound as per IEC61249 Std. .(Halogen Free) MUR860D TO-263 **Mechanical Data** • Case: Molded plastic, TO-220AC, ITO-220AC, TO-263, TO-252 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 ٠ ٠ Polarity: Color Band denotes cathode end • TO-220AC Approx. Weight: 0.067 ounces, 1.89 grams MUR860S TO-252 ITO-220AC Approx. Weight: 0.055 ounces, 1.56 grams • TO-263 Approx. Weight: 0.051 ounces, 1.46 grams • TO-252 Weight: 0.0104 ounces, 0.297 grams Marking: Part number

Maximum Ratings (T_A=25 $^{\circ}$ C unless otherwise noted)

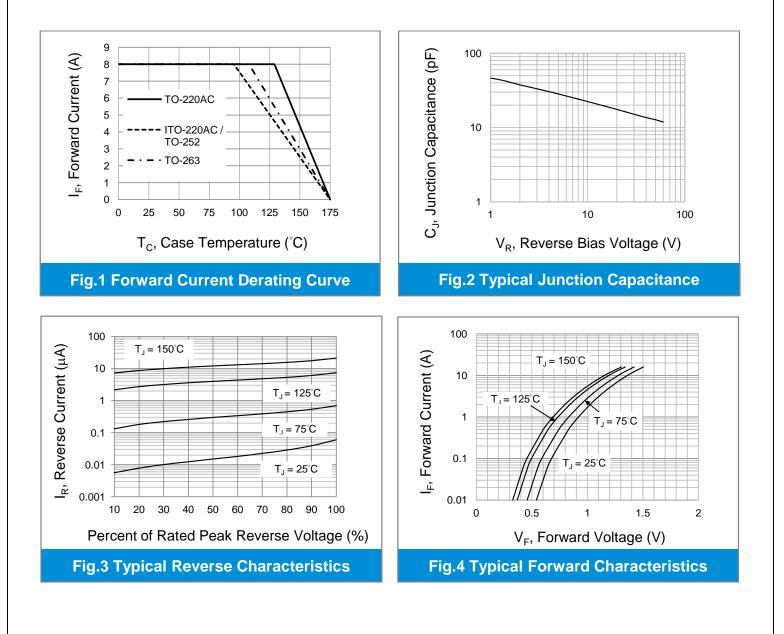
| PARAMETER | SYMBOL | LIMIT | UNIT |
|---|----------|-------------|------|
| Maximum repetitive peak reverse voltage | Vrrm | 600 | V |
| Maximum rms voltage | Vrms | 420 | V |
| Maximum dc blocking voltage | Vr | 600 | V |
| Maximum average forward current | lf(AV) | 8 | А |
| Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load | IFSM | 100 | А |
| Maximum forward voltage at 8A | VF | 1.5 | V |
| Maximum dc reverse current at rated dc blocking voltage | lr | 5 | μA |
| Operating and storage temperature range | TJ, TSTG | -55 to +175 | °C |



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| Maximum Ratings (T _A =25 [°] C unless otherwise noted) | | | | | | | | |
|--|--------------------|---|-------|------|--|--|--|--|
| PARAMETER | | SYMBOL | LIMIT | UNIT | | | | |
| Maximum reverse recovery time | (Note 3) | Trr | 50 | ns | | | | |
| Typical thermal resistance | TO-220AC(Note 1) | Note 1) 1) R _{θJC} R _{θJC} | 2.5 | | | | | |
| | ITO-220AC (Note 1) | | 6.5 | °C/W | | | | |
| | TO-263(Note 1) | | 5 | C/VV | | | | |
| | TO-252(Note 2) | | 6.5 | | | | | |

- Note : 1. Device mounted on a infinite heatsink, then measured the center of the marking side.
 - 2. Mounted on a 10cm*10cm*1mm copper pad area
 - 3. Reverse Recovery Test Conditions : IF=0.5A, IR=1A, Recover to 0.25A



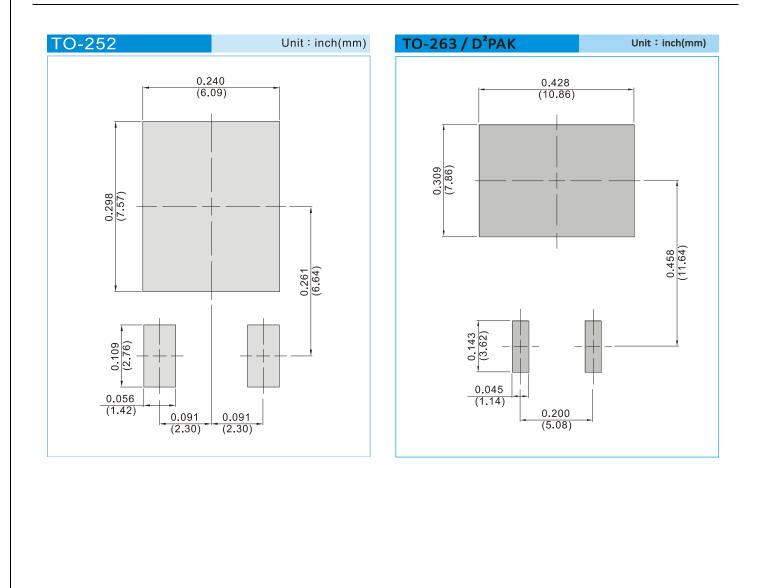


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PART NO PACKING CODE VERSION

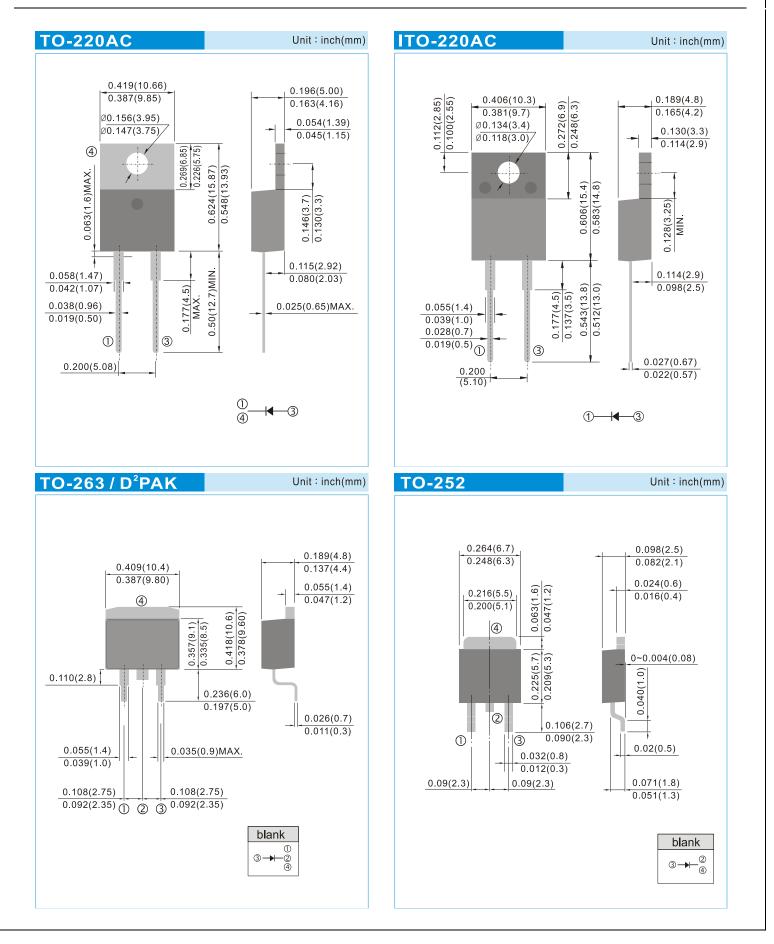
| PART NO PACKING CODE | Package Type | Packing type | Marking | Version |
|----------------------|--------------|---------------------|---------|--------------|
| MUR860_T0_00001 | TO-220AC | 50 pcs / Tube | MUR860 | Halogen free |
| MUR860F_T0_00001 | ITO-220AC | 50 pcs / Tube | MUR860F | Halogen free |
| MUR860D_R2_00001 | TO-263 | 0.8K pcs / 13" reel | MUR860D | Halogen free |
| MUR860S_L2_00001 | TO-252 | 3K pcs / 13" reel | MUR860S | Halogen free |

MOUNTING PAD LAYOUT





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