



SUPERFAST RECOVERY RECTIFIERS

Voltage

600 V

Current

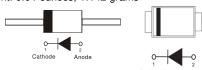
3 A

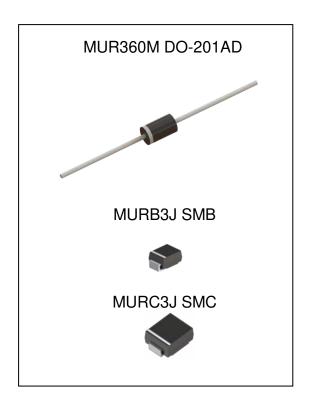
Features

- Superfast recovery times-epitaxial construction
- Low forward voltage, high current capability
- Hermetically sealed.
- Low leakage
- 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 2.0
- Green molding compound as per IEC 61249 standard (SMB, SMC)

Mechanical Data

- Case: Molded plastic, SMB, SMC, DO-201AD
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- SMB Approx. Weight: 0.0032 ounces, 0.092 grams
- SMC Approx. Weight: 0.0082 ounces, 0.2325 grams
- DO-201AD Approx. Weight: 0.04 ounces, 1.142 grams
- Marking: Part number





Maximum Ratings (T_A=25°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) | 3 | А |
| Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load | SMB SMC DO-201AD | IFSM | 70 80 80 | А |
| Maximum forward voltage at 3A | | VF | 1.25 | V |
| Maximum dc reverse current at rated dc blocking voltage | | lr | 5 | μΑ |
| Operating and storage temperature range | | TJ, TSTG | -55 to +175 | °C |



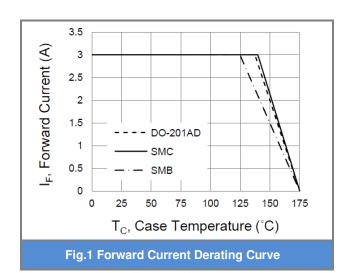


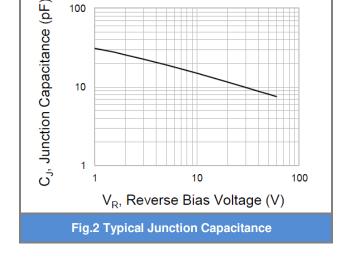
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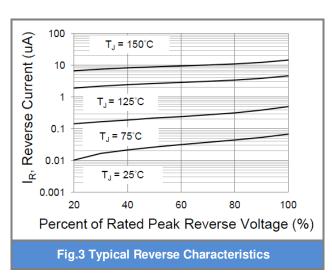
| PARAMETER | | SYMBOL | LIMIT | UNIT |
|-------------------------------|------------------|-----------------|-------|------|
| Maximum reverse recovery time | (Note 4) | T _{RR} | 50 | ns |
| Typical thermal resistance | SMB(Note 3) | $R_{	heta JA}$ | 135 | |
| | SMC(Note 3) | $R_{	heta JA}$ | 125 | |
| | SMB(Note 1) | $R_{	heta JC}$ | 20 | °C/W |
| | SMC(Note 1) | $R_{	heta JC}$ | 14 | |
| | DO-201AD(Note 2) | $R_{\theta JL}$ | 24 | |

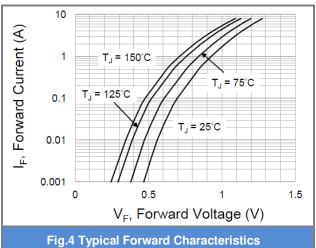
Note:1.Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area

- 2.The testing condition of the thermal resistance (junction to lead) is based on 10 mm lead length between two 10cm x 10cm x 0.5mm copper pad
- 3. Mounted on a FR4 PCB, single-sided copper, mini pad
- 4. Reverse Recovery Test Conditions: I_F=0.5A, I_R=-1A, Recover to -0.25A









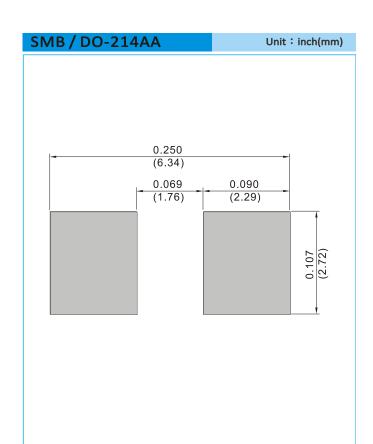


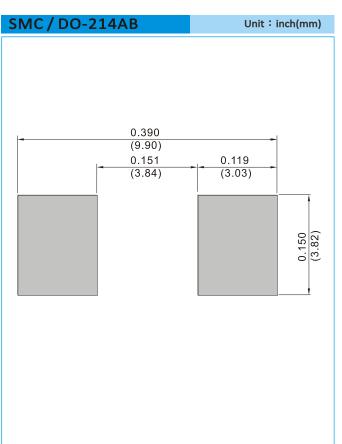


PART NO PACKING CODE VERSION

| PART NO PACKING CODE | Package Type | Packing type | Marking | Version |
|----------------------|--------------|---------------------|---------|--------------|
| MUR360M_AY_00001 | DO-201AD | 1.25K pcs / TB 52mm | MUR360M | Halogen free |
| MUR360M_AY_00001 | DO-201AD | 1.25K pcs / TB 52mm | MUR360M | RoHS |
| MURB3J_R1_00001 | SMB | 0.8K pcs / 7" reel | MURB3J | Halogen free |
| MURC3J_R1_00001 | SMC | 0.8K pcs / 7" reel | MURC3J | Halogen free |

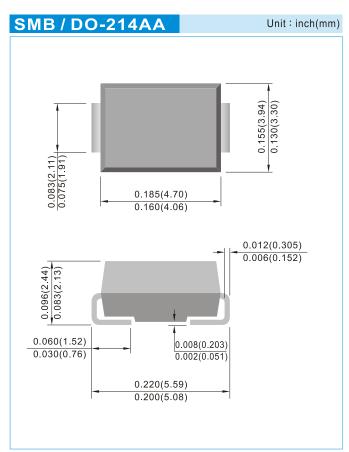
MOUNTING PAD LAYOUT

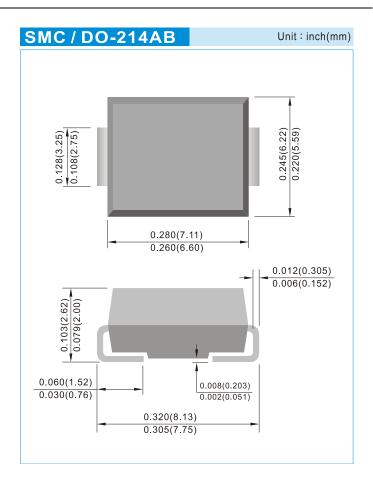


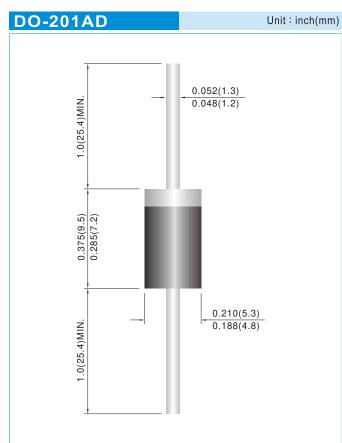
















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