



S5A-AU SERIES

SURFACE MOUNT RECTIFIER

VOLTAGE 50~1000 Volt **CURRENT** 5 Ampere

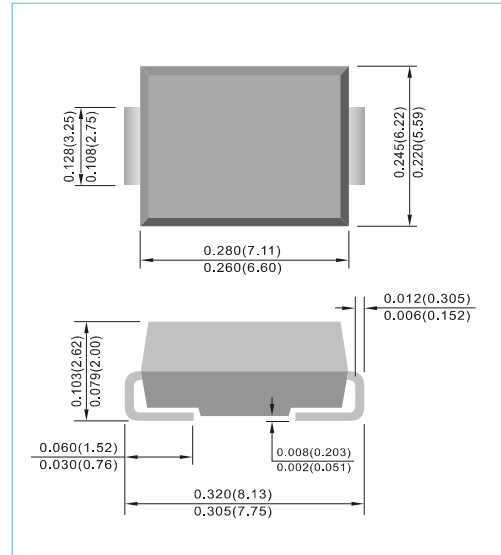
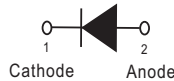
SMC / DO-214AB Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Easy pick and place
- Glass passivated junction
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

MECHANICAL DATA

- Case: JEDEC SMC /DO-214AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.0082 ounces, 0.23 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

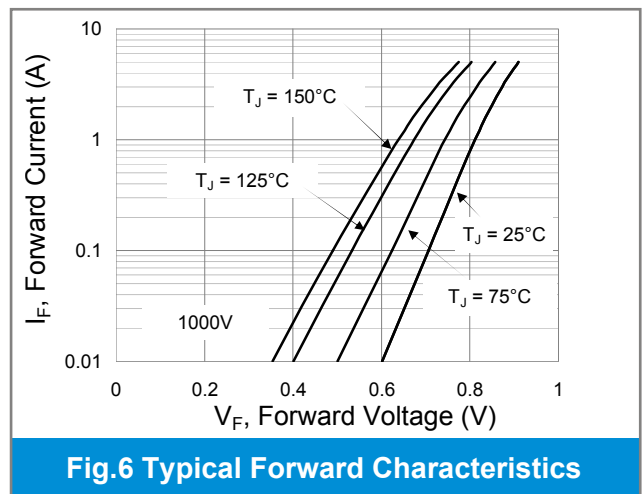
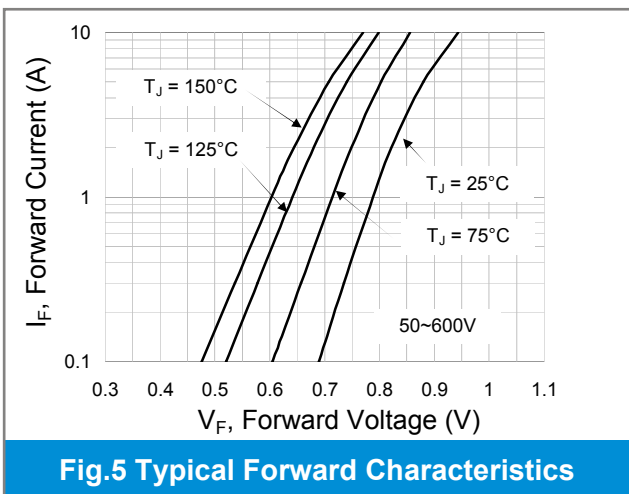
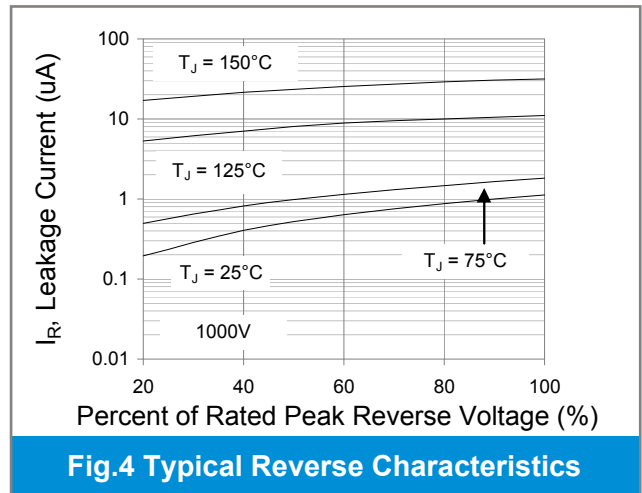
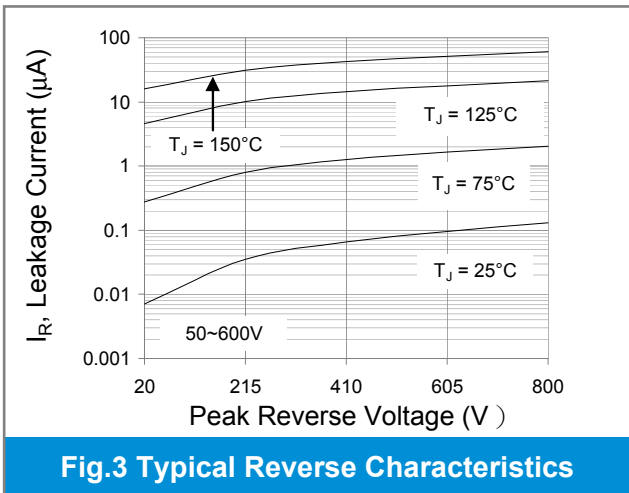
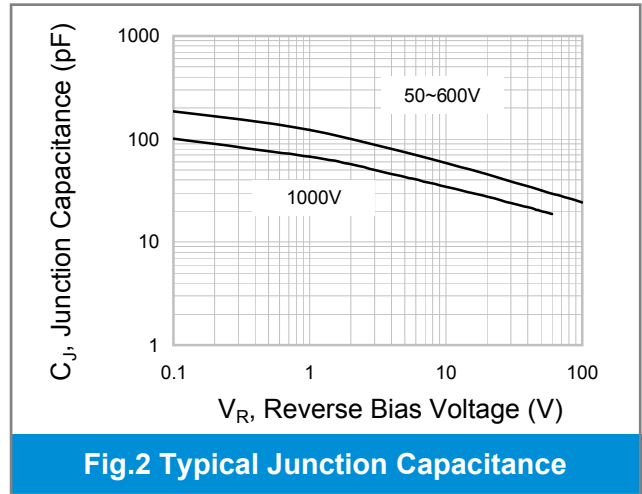
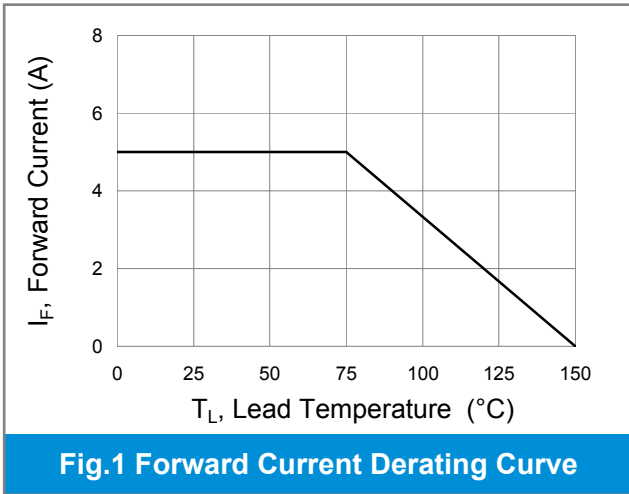
| PARAMETER | SYMBOL | S5A-AU | S5B-AU | S5D-AU | S5G-AU | S5J-AU | S5M-AU | UNITS | |
|--|------------------------------------|-------------|--------|--------|--------|--------|--------|--------------------|----|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 1000 | V | |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 700 | V | |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 1000 | V | |
| Maximum Average Forward Rectified Current | $I_{F(AV)}$ | 5 | | | | | | A | |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 275 | | | | | | A | |
| Rating for Fusing (t<8.3ms) | I^2t | 313 | | | | | | A ² sec | |
| Maximum Forward Voltage at 5A | V_F | 1.1 | | | | | | V | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$ $T_J=125^{\circ}C$ | I_R | 10 250 | | | | | | μA | |
| Typical Junction Capacitance (NOTES 1) | C_J | 80 | | | | | | 46 | pF |
| Typical Junction Resistance (NOTES 2) | $R_{\theta JA}$ $R_{\theta JL}$ | 75 10 | | | | | | $^{\circ}C / W$ | |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | | | | | | $^{\circ}C$ | |

NOTES :

1. Measured at 1 MHz and applied $V_r=4$ volts.
2. $8mm^2$ (0.013mm thick) land areas.



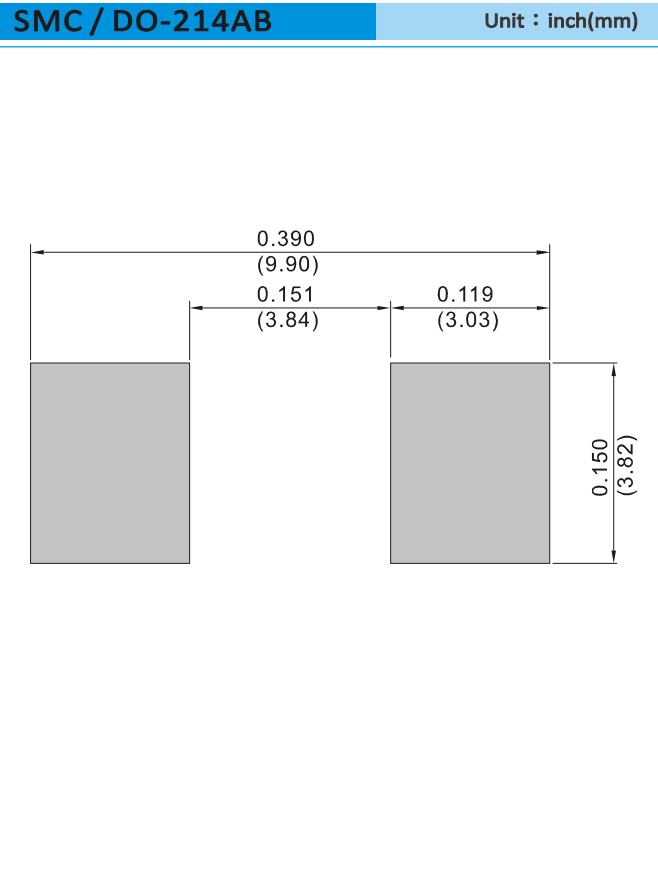
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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 3K per 13" plastic Reel
T/R - 0.8K per 7" plastic Reel



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Part No_packing code_Version

S5A-AU_R1_000A1

S5A-AU_R2_000A1

For example :

RB500V-40 **R2** **00001**



| Packing Code XX | | | | Version Code XXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code |
| Tape and Ammunition Box (T/B) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 26mm | X | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | |



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