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SURFACE MOUNT FAST RECOVERY RECTIFIER

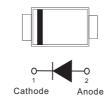
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere

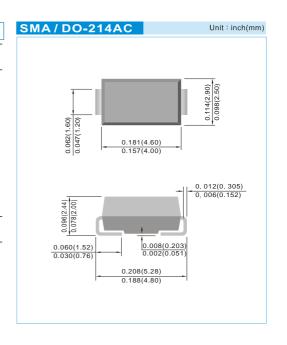
FEATURES

- For surface mounted applications in order to optimize board space
- · Easy pick and place
- · Fast recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Glass passivated junction
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0023 ounce, 0.0679 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%.

| PARAMETER | SYMBOL | RS1A | RS1B | RS1D | RS1G | RS1J | RS1K | RS1M | UNITS |
|---|---------------------------------------|-------------|------|------|------|------|------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | ٧ |
| Maximum Average Rectified Current | I _{F(AV)} | 1 | | | | | | А | |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 30 | | | | | | | А |
| Maximum Forward Voltage at 1A | V _F | 1.3 | | | | | V | | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$ $T_J=125^{\circ}C$ | l _R | 1 150 | | | | | | μА | |
| Maximum Reverse Recovery Time (Note 1) | t _{rr} | 150 250 500 | | | 00 | ns | | | |
| Maximum Junction Capacitance (Note 2) | C | 12 | | | | | | pF | |
| Typical Junction Resistance (Note 3) | $R_{_{\theta JA}}$ $R_{_{\theta JL}}$ | 100 32 | | | | | | °C / W | |
| Operating Junction and Storage Temperature Range | T _J ,T _{STG} | -55 to +150 | | | | | | °C | |

NOTES:1. Reverse Recovery Test Conditions: $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$

- 2. Measured at 1 MHz and applied $V_r = 4$ volts.
- 3. 8mm² (0.013mm thick) land areas.





RATING AND CHARACTERISTIC CURVES

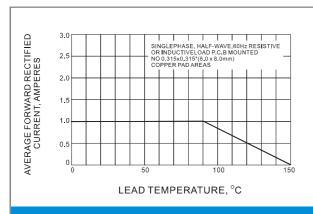


Fig.1 FORWARD CURRENT DERATING CURVE

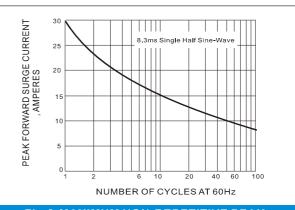


Fig.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

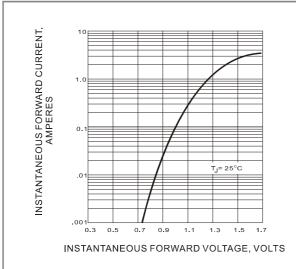


Fig.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

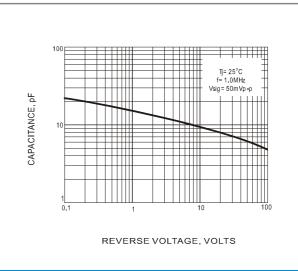
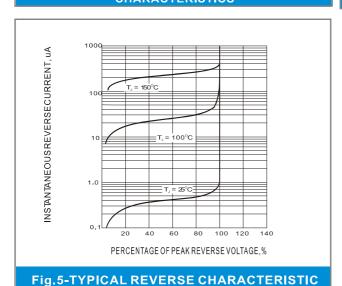


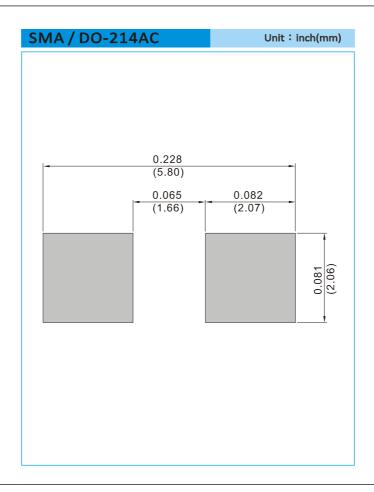
Fig. 4 TYPICAL JUNCTION CAPACITANCE







MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





Part No_packing code_Version

RS1A_R1_00001 RS1A_R2_00001

For example:



| 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) | Α | N/A | 0 | HF | 0 | serial number | | | |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number | | | |
| Bulk Packing (B/P) | В | 13" | 2 | | | | | | |
| Tube Packing (T/P) | Т | 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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