

SURFACE MOUNT FAST RECOVERY RECTIFIERS

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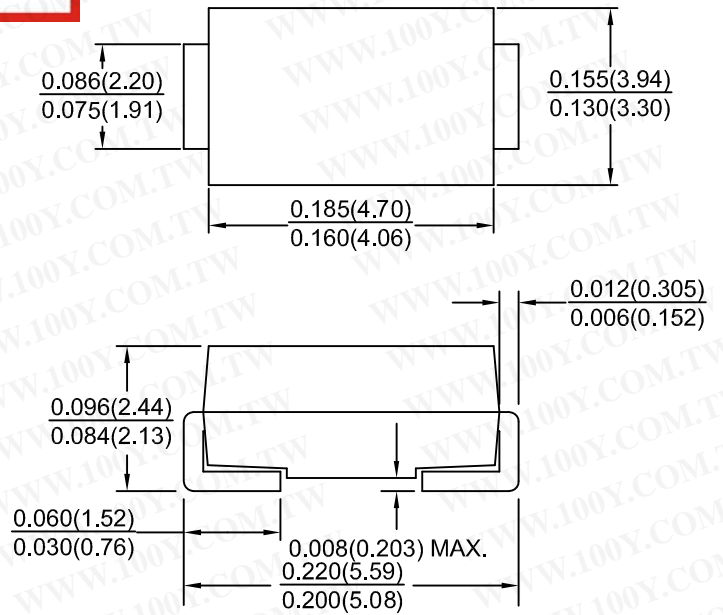
FEATURES:

- Plastic package has Underwriters
- Flammability Classification 94V-0
- For surface mounted applications in order to optimize board space
- Low profile package
- Built-in strain relief, ideal for automated placement
- Fast switching for high efficiency
- Glass passivated chip junction
- High temperature soldering :
250 °C /10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic over passivated chip
 Terminals: Solder plated, solderable perMIL-STD-750, Method 2026
 Polarity: Color band denotes cathode end
 Weight: 0.093 grams

SMB/DO-214AA



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| Characteristic | Symbol | RS2A | RS2B | RS2D | RS2G | RS2J | RS2K | RS2M | Units |
|---|----------|-------------|------|------|------|------|------|------|-------|
| Maximum recurrent peak reverse voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 7000 | Volts |
| Maximum DC blocking voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum average forward rectified current at Ta=90° C | Io | 2.0 | | | | | | | Amp |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method) | IFSM | 50 | | | | | | | Amps |
| Maximum instantaneous forward voltage at 2.0A | VF | 1.30 | | | | | | | Volts |
| Maximum DC reverse current at rated DC blocking voltage | IR | 5.0 200 | | | | | | | μ A |
| Maximum reverse recovery time (Note1) | trr | 150 | | | 250 | | 500 | | nS |
| Operating and storage temperature range | TJ, Tstg | -65 to +150 | | | | | | | °C |

NOTES:

- (1) Reverse recovery test condition : I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from Junction to lead mounted on P.C.B. with 0.2x0.2"(5.0x5.0mm) copper Pad areas

RATINGS AND CHARACTERISTIC CURVES RS2A THRU RS2M

FIG.1 - FORWARD CORRENT DERATING CURVE

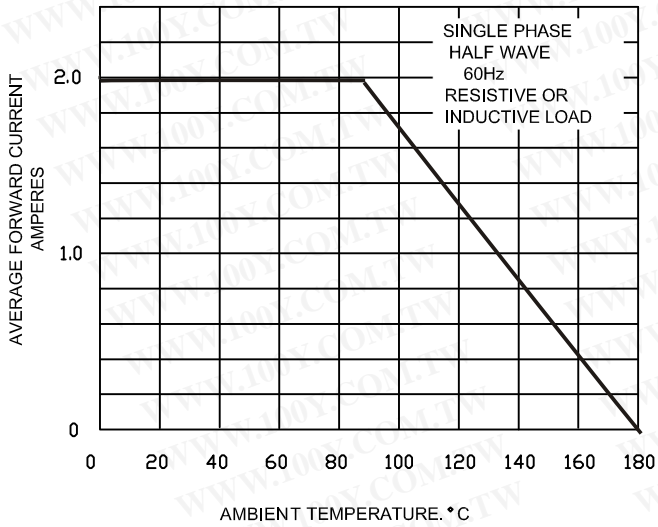


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

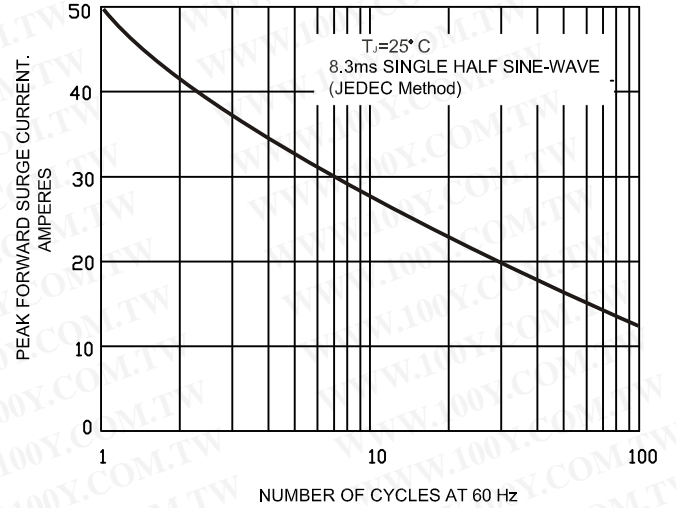


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

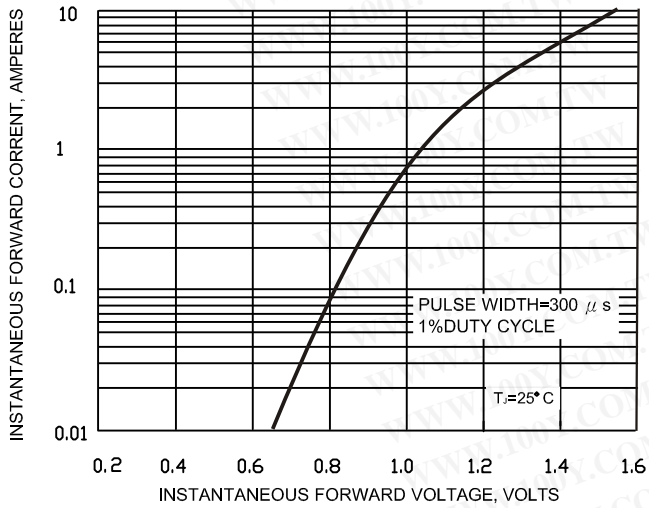


FIG.4-TYPICAL REVERSE CHARACTERISTICS

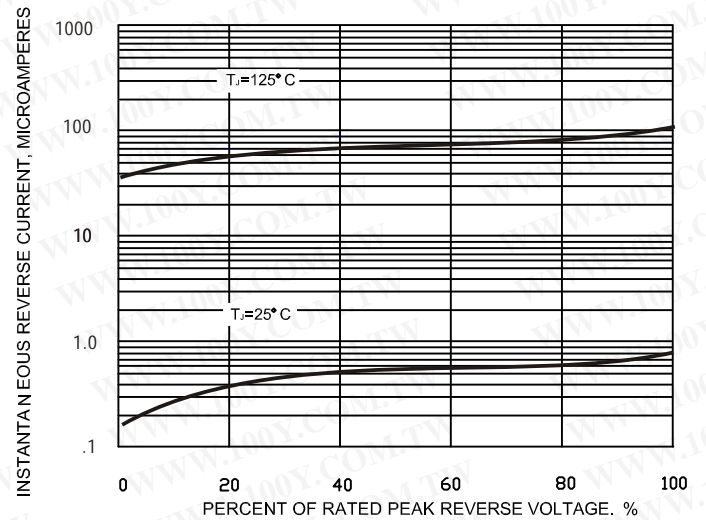


FIG.5-TYPICAL JUNCTION CAPACITANCE

