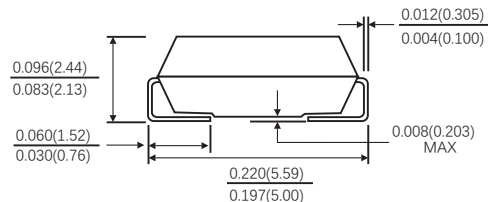
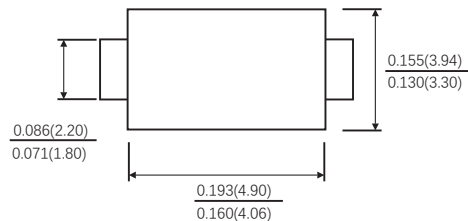


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction
- Low forward voltage drop
- High current capability, High reliability
- Low power loss, high efficiency
- High surge current capability
- High speed switching, Low leakage
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU



SMB(DO-214AA)



MECHANICAL DATA

- Case: JEDEC SMB(DO-214AA) molded plastic body
- Terminals: solder plated ,solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Weight: 0.003ounce,0.093 gram

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| Parameters | | Symbol | US2AB | US2BB | US2DB | US2FB | US2GB | US2JB | US2KB | US2MB | Units |
|--|-----------------------|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum repetitive peak reverse voltage | | V _{RRM} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | | V _{RMS} | 35 | 70 | 140 | 210 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | | V _{DC} | 50 | 100 | 200 | 300 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current | | I _{F(AV)} | 2.0 | | | | | | | | Amps |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | | I _{FSM} | 50 | | | | | | | | Amps |
| Maximum Instantaneous Forward Voltage at 2.0 A | | V _F | 1.0 | | | | 1.4 | 1.7 | | | Volts |
| Maximum DC Reverse Current at rated DC blocking voltage | T _J =25°C | I _R | 5.0 | | | | | | | | uA |
| | T _J =125°C | | 100 | | | | | | | | |
| Maximum reverse recovery time(Note1) | | t _{rr} | 50 | | | | | 75 | | | ns |
| Typical junction capacitance(Note2) | | C _J | 20 | | | | | | | | pF |
| Operating junction and storage temperature range | | T _J /T _{STG} | -50 to +150 | | | | | | | | °C |

Note: 1.Reverse Recovery Test conditions: $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$.
2.Measured at 1MHZ and applied reverse voltage of 4.0 Volts.

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

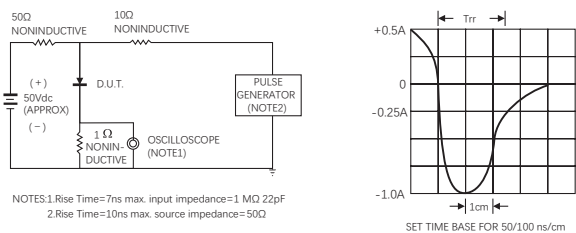


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

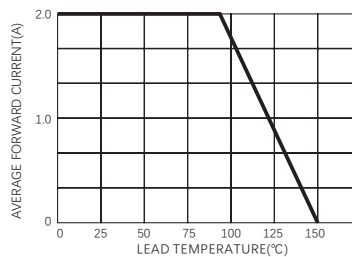


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

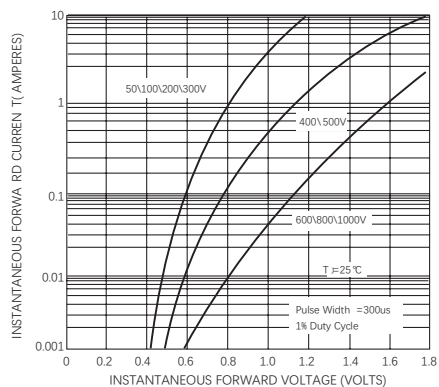


FIG.4-TYPICAL REVERSE CHARACTERISTICS

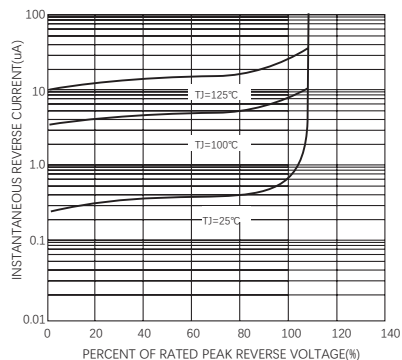


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

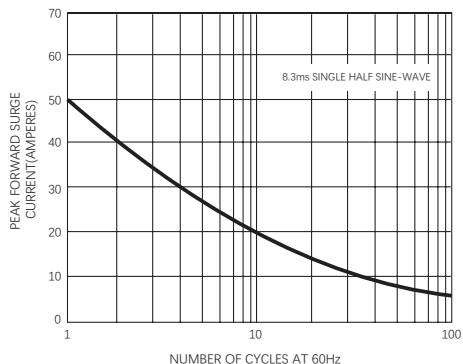
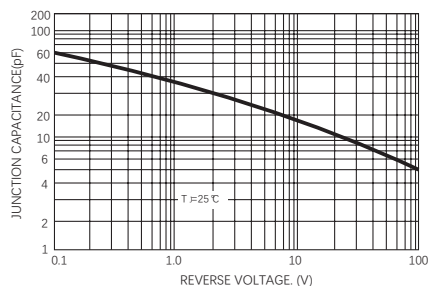


FIG.6-TYPICAL JUNCTION CAPACITANCE



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