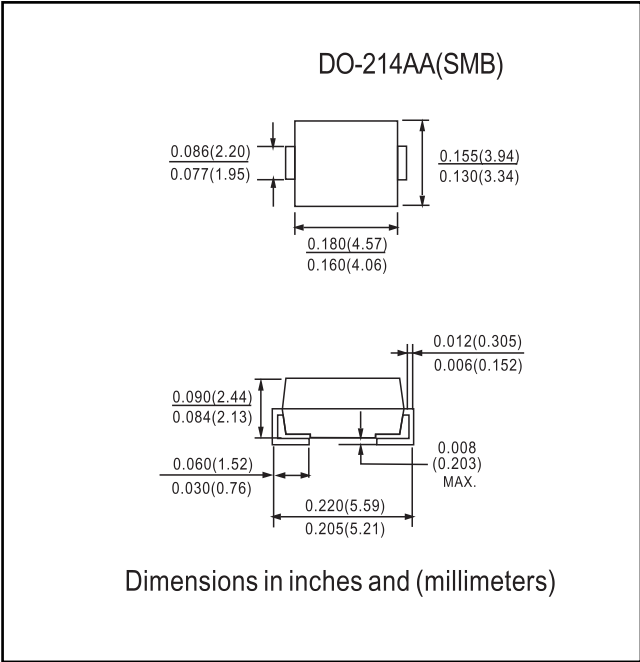


- Features**
- x The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
 - ☒ Fast switching for high efficiency
 - ☒ Low reverse leakage
 - ☒ High forward surge current capability
 - ☒ For surface mounted applications

Mechanical Data

- ☒ **Case:** Molded plastic, DO-214AA (SMB).
- ☒ **Terminals:** Solder plated, solderable per MIL-STD-750, method 2026
- ☒ **Polarity:** Color band denotes cathode end



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

| | SYMBOLS | FR2A | FR2B | FR2D | FR2G | FR2J | FR2K | FR2M | UNITS |
|-----------------------------------------------------------------------------------------------------------------|----------------|-------------|------|------|------|------|------|------|---------------------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | VOLTS |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | VOLTS |
| Maximum average forward rectified current at $T_L=90^\circ\text{C}$ | $I_{(AV)}$ | 2.0 | | | | | | | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 50.0 | | | | | | | Amps |
| Maximum instantaneous forward voltage at 2.0A | V_F | 1.3 | | | | | | | Volts |
| Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$ | I_R | 5.0 50.0 | | | | | | | μA |
| Maximum reverse recovery time (NOTE 1) | t_{rr} | 150 | | | 250 | | 500 | | ns |
| Typical junction capacitance (NOTE 2) | C_J | 50.0 | | | | | | | pF |
| Typical thermal resistance (NOTE 3) | R_{qJA} | 20.0 | | | | | | | $^\circ\text{C}/\text{W}$ |
| Operating junction and storage temperature range | T_J, T_{STG} | -65 to +150 | | | | | | | $^\circ\text{C}$ |

Note: 1. Reverse recovery condition $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
3. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

TOP ONE

SEMI
CONDUCTOR
SURFACE MOUNT FAST RECOVERY RECTIFIERS

FR2A THRU FR2M

50V-1000V 2.0A