

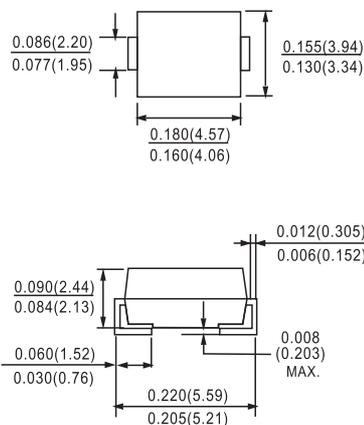
**Features**

- 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

DO-214AA(SMB)



Dimensions in inches and (millimeters)

0 \$ ; , 0 8 0 \$ 7 , 1 \* 6 \$ 1 ' ( / ( & 7 5 , & \$ & + \$ 5 \$ & 7 ( 5 , 6 7 , & 6

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 <sub>RRM</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at T <sub>L</sub> =90°C	I <sub>(AV)</sub>	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50.0							Amps
Maximum instantaneous forward voltage at 2.0A	V <sub>F</sub>	1.3							Volts
Maximum DC reverse current at rated DC blocking voltage T <sub>A</sub> =25°C T <sub>A</sub> =100°C	I <sub>R</sub>	5.0 50.0							uA
Maximum reverse recovery time (NOTE 1)	t <sub>rr</sub>	150			250	500			ns
Typical junction capacitance (NOTE 2)	C <sub>J</sub>	50.0							pF
Typical thermal resistance (NOTE 3)	R <sub>qJA</sub>	20.0							°C/W
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150							°C

**Note:** 1. Reverse recovery condition I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>rr</sub>=0.25A  
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