



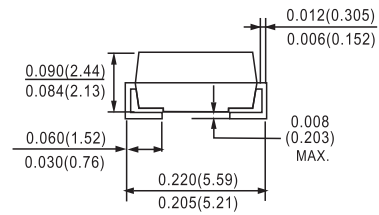
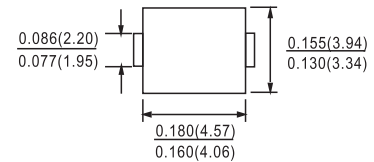
### Features

- 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	$V_{RRM}$	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							$\mu\text{A}$
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