



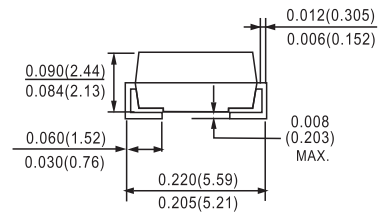
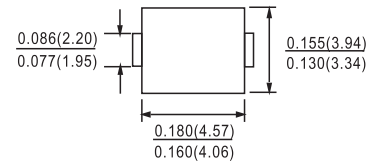
Features

- 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							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