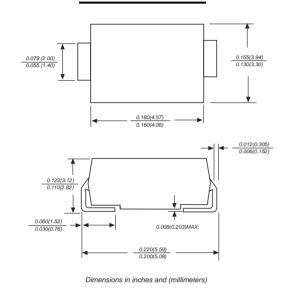


# SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current -2.0 Amperes

#### DO-214AA/SMB



# **Features**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
  For surface mounted applications
  Fast switching for high efficiency

- ◆ Low reverse leakage
  ◆ Built-in strain relief,ideal for automated placement
- High forward surge current capability
   High temperature soldering guaranteed: 260°C/10 seconds at terminals

### Mechanical Data

Case: JEDEC DO-214AA molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.005 ounce, 0.138 grams

#### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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	RS2AB	RS2BB	RS2DB	RS2GB	RS2JB	RS2KB	RS2MB	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=90°C	l(AV)	2.0							Α
Peak forward surge current 8.3ms single half sine-wave superimposed on	IFSM	50.0							А
rated load  Maximum instantaneous forward voltage at 2.0A	VE	V <sub>F</sub> 1.3							
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	IR		5.0 50.0						
Maximum reverse recovery time (NOTE 1)	trr		150	0		250	500	)	ns
Typical junction capacitance (NOTE 2)	Сл		50.0						pF
Typical thermal resistance (NOTE 3)	Reja		20.0						
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=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



