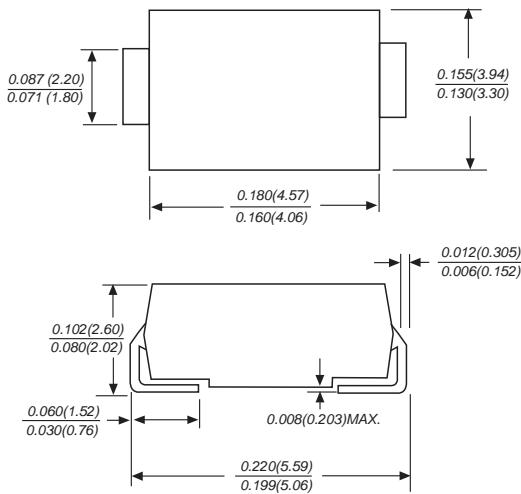


DO-214AA/SMB

Dimensions in inches and (millimeters)

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94-0
- For surface mounted application
- Glass Passivated Chip Junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 250°C/10seconds

Mechanical Data

- Case:** JEDEC DO-214AA/SMB molded plastic bldy
- Terminals:** Plated leads solderable per MIL-STD-750, Method 2026
- Polarity:** Color band dentes cathode end
- Mounting Position:** Any

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half-wave 60Hz, resistive or inductive load, For capacitive load derate current by 20%.

Type Number	SYMBOL	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Units
Maximum recurrent peak reverse voltage	V _{RM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average rectified output current at @TL=100°C	I _(AV)	2.0						A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0						A	
Maximum instantaneous forward voltage at 2.0A	V _F	1.15						V	
Maximum DC reverse current @TA=25°C At Rated DC blocking voltage @TA=125°C	I _R	1.0 125.0						uA	
Maximum Reverse Recovery Time((Note 1))	T _{rr}	2.5						us	
Typical junction capacitance (Note 2)	C _j	30.0						pF	
Typical thermal resistance (Note 3)	R _{θJA} R _{θJL}	53.0 16.0						°C/W	
Operating junction and storage temperature range	T _j , T _{STG}	-55 to +150						°C	

Note: 1. Measured with IF=0.5A, IR=1A, Irr=0.25A

2. Measured at 1.0 MHz and applied reverse Voltage of 4.0V D.C

3. P.C.B. mounted with 0.4x0.4"(10x10mm)copper pad areas.

RATINGS AND CHARACTERISTIC CURVES S2A THRU S2M

