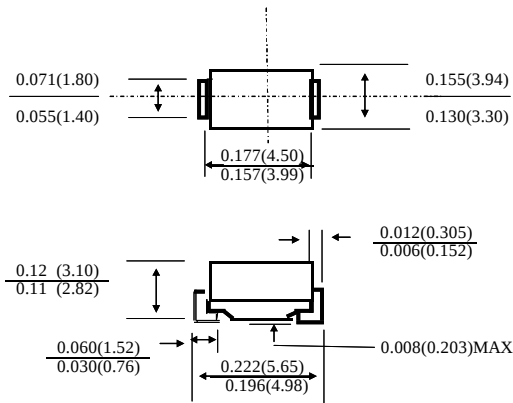


3.0AMP PLASTIC SILICON RECTIFIERS

Reverse Voltage -20 to 200 Volts

DO - 214AA(SMB)



inch (mm)

FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250° C/10 seconds at terminals

MECHANICAL DATA

Case JEDEC DO-214AA molded plastic body
Terminals leads 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. derate current by 20%

	SYMBOL	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current 9.5mm Lead Length. T _A = 50°C	I _(AV)	3.0									A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated Load	I _{FSM}	100									A
Maximum Forward Voltage at 2.0A DC	V _F	0.45	0.55		0.70		0.85			V	
Maximum Reverse Current T _A = 25°C at Rated DC Blocking Voltage T _A = 100°C	I _R	0.5									mA
		20				10					
Typical Junction Capacitance (Note 1)	C _j	500				300					pF
Typical Thermal Resistance (Note 2)	R _{QJA}	55									°C/W
Operating Junction Temperature Range	T _j	—65 to 125				—65 to 150					°C
Storage Temperature Range	T _{STG}	—65 to 150									°C

NOTE: 1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.

2. Thermal resistance junction to ambient.

