



MASTER INSTRUMENT CORPORATION

SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER
SS32A THRU SS39A

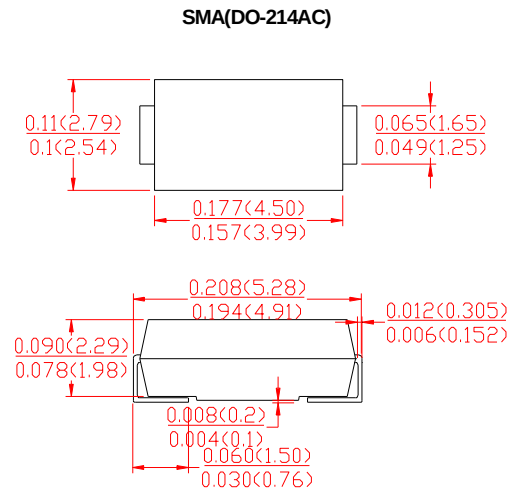
VOLTAGE RANGE 20 to 100 Volts
Forward Current 3.0 Amperes

FEATURES

- Plastic package has Underwrites Laboratory Flammability Classification 94V-0
- For surface mount applications
- Low profile package
- Built-in strain relief
- Majority carrier conduction
- High current capability, Low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling and polarity protection applications.
- High temperature soldering: 250 °C/10 seconds at terminals

MECHANICAL DATA

- Case: JEDED DO-214AC molded plastic.
- Terminal: Solder Plated solder able per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002 ounces, 0.064grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load.

		Symbols	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	90	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	63	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	90	Volts
Maximum Average Forward Rectified Current at TL(see figure)		I _(AV)	3.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	80							Amps
Maximum Instantaneous Forward Voltage at 3.0A(Note 1)		V _F	0.50			0.75		0.85		Volts
Maximum DC Reverse Current(Note 1) at Rated DC blocking voltage	T _A =25 °C	I _R	0.5							mA
	T _A =100 °C		20.0							
Maximum Thermal Resistance (Note 2)		R _{QJL}	17							°C/W
		R _{QJA}	55							
Operating Junction Temperature Range		T _J	-55 to +125							°C
Storage temperature range		T _{STG}	-55 to +150							°C
NOTES: 1. Pulse test with PW= 300us, 2% Duty Cycle 2. Mounted on P.C board with 5.0 mm ² (0.13mm thick) copper land areas										



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RATING AND CHRACTERISTIC CURVES SS32A thru SS39A

