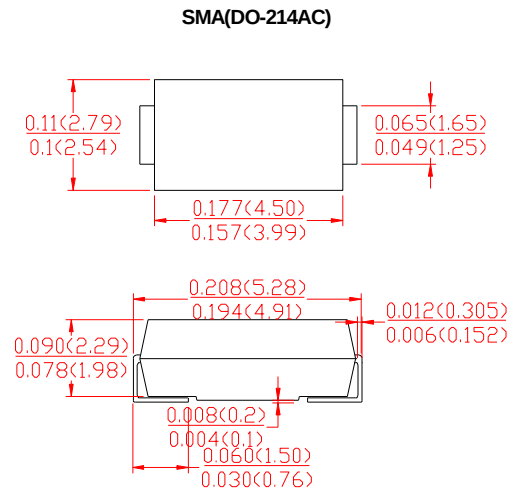


FEATURES

- | 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	SS32	SS33	SS34	SS35	SS36	SS38	SS39	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	$T_A=25^{\circ}C$	I_R	0.5							mA
	$T_A=100^{\circ}C$		20.0							
Maximum Thermal Resistance (Note 2)		R_{QJL}	17							$^{\circ}C/W$
		R_{QJA}	55							
Operating Junction Temperature Range		T_J	-55 to +125							$^{\circ}C$
Storage temperature range		T_{STG}	-55 to +150							$^{\circ}C$
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										

FIG. 1 - FORWARD CURRENT DERATING CURVE

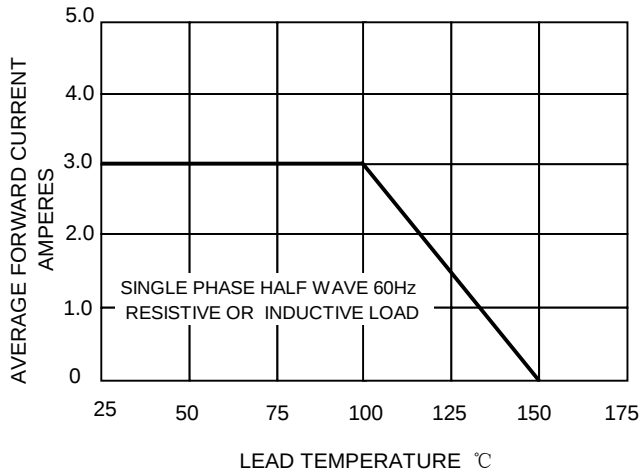


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

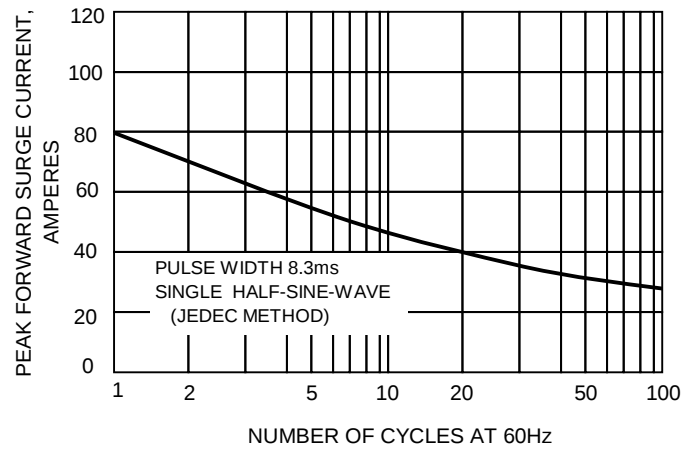


FIG.3-TYPICAL FORWARD CHARACTERISTICS

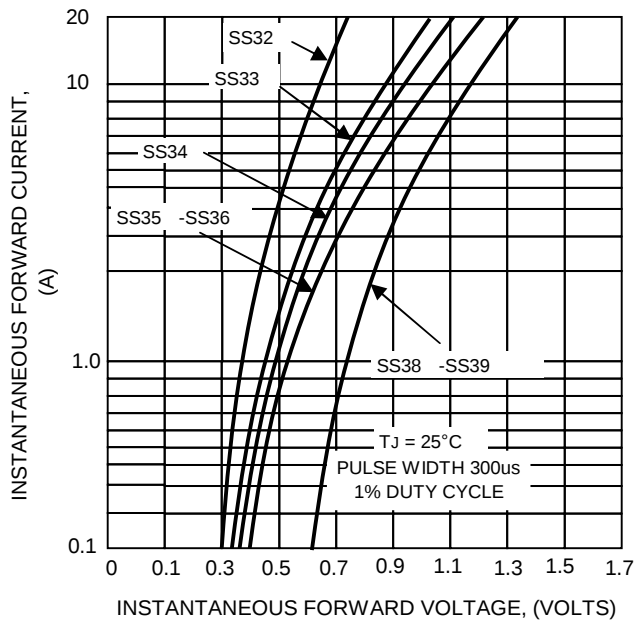


FIG.4-TYPICAL JUNCTION CAPACITANCE

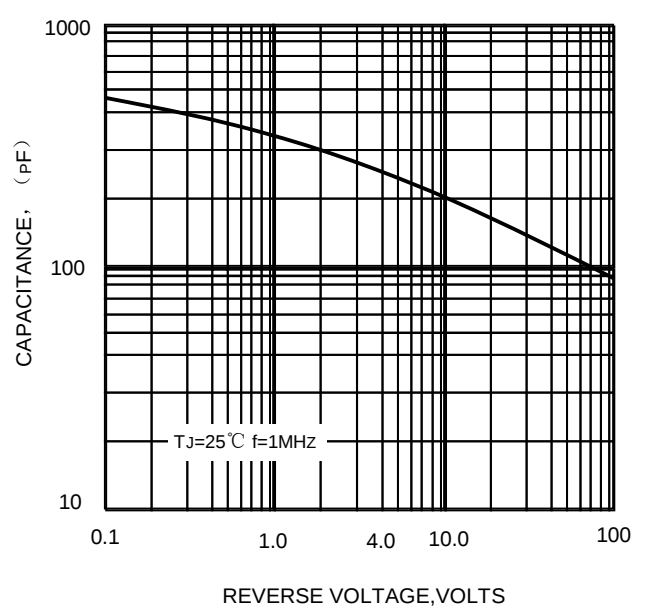


FIG.5-TYPICAL REVERSE CHARACTERISTICS

