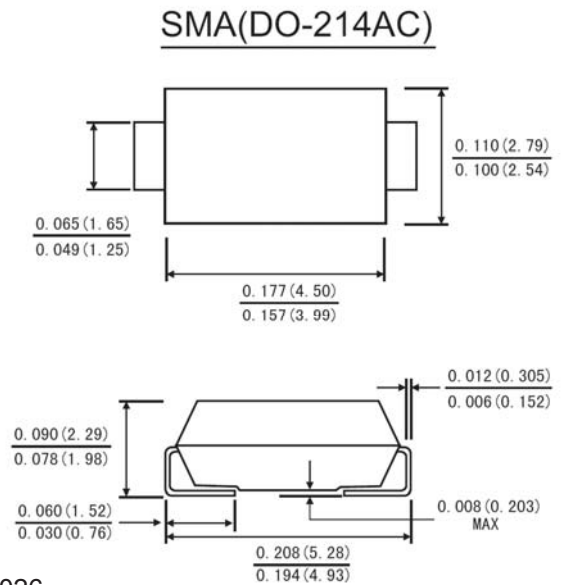


## Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- For surface mount applications
- Guard ring for over voltage protection
- Low power loss, high efficiency
- 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 guaranteed:  
250°C/10 seconds at terminals

## Mechanical Data

- Case: JEDEC SMA(DO-214AC) molded plastic body
- Terminals: solder plated, solder able per MIL-STD-750, method 2026
- Polarity: color band denotes cathode end
- Weight: 0.002ounce, 0.064 gram



Dimensions in inches and (millimeters)

## 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%.

Type Numbe	Symbols	SS12	SS14	SS16	SS1A	SS1A5	SS1B	Units
		SK12	SK14	SK16	SK1A	SK1A5	SK1B	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	40	60	100	150	200	Volts
Maximum RMS Voltage	$V_{RMS}$	14	28	42	70	105	140	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	100	150	200	Volts
Maximum average forward rectified current (See Fig. 1)	$I_{(AV)}$	1.0						Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50.0						Amp
Maximum instantaneous forward voltage at 1.0A(Note 1)	$V_F$	0.55	0.70	0.85	0.90	0.95		Volts
Maximum Reverse Current $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	$I_R$	0.5 10.0						mAmp
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	35						°C/W
Operating Temperature Range	$T_J$	-65 to +150						°C
Storage Temperature Range	$T_{STG}$	-65 to +150						°C

### NOTES:

1. Pulse test: 300  $\mu$ s pulse width, 1% duty cycle
2. P.C.B. mounted with 0.2 X 0.2"(5.0 X 5.0mm) copper pad areas

**RATINGS AND CHARACTERISTIC CURVES**

FIG.1-FORWARD CURRENT DERATING CURVE

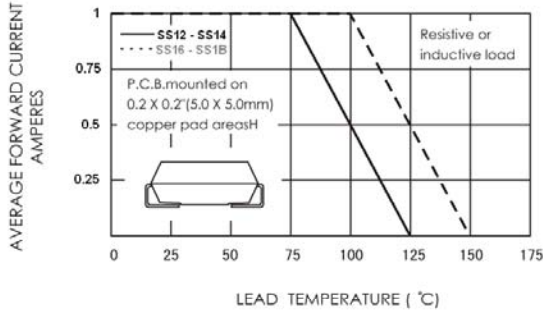


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

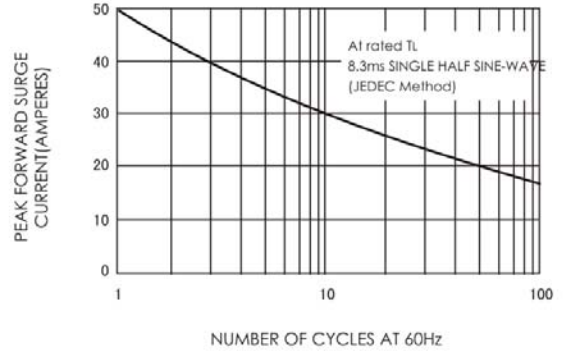


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

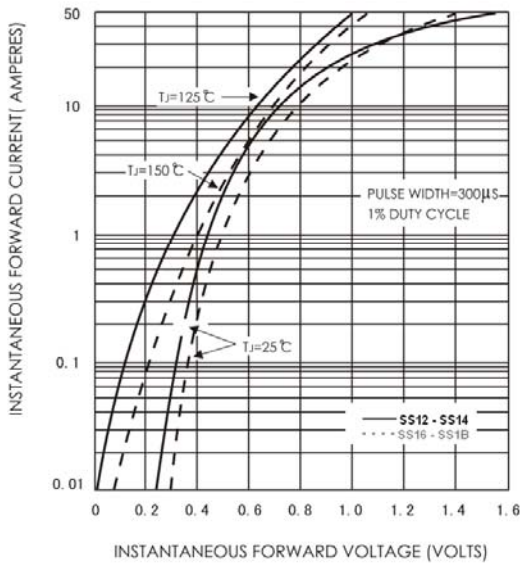


FIG.4-TYPICAL REVERSE CHARACTERISTICS

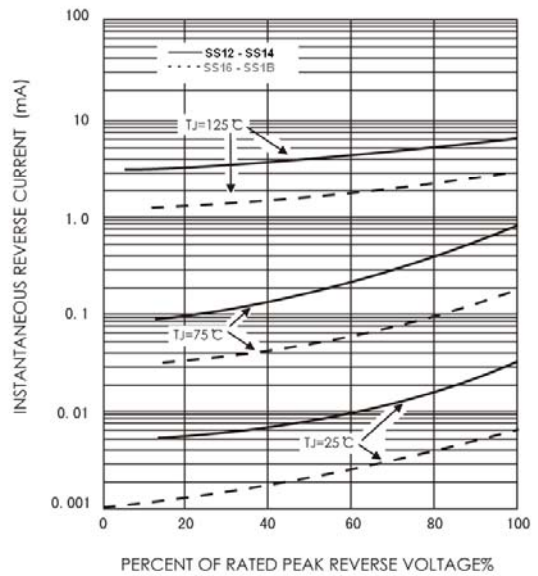


FIG.5-TYPICAL JUNCTION CAPACITANCE

