



### ■ Features

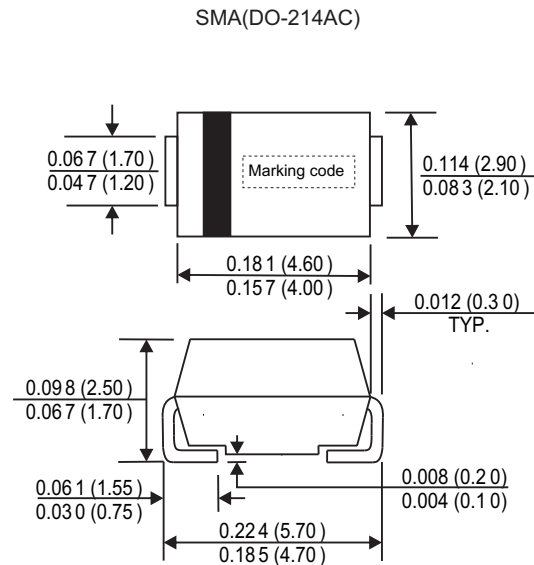
- Electrostatic discharge (ESD) test under IEC6100-4-2 standard >16KV(SS32AL~SS36AL).  
standard >10KV(SS310AL~SS320AL).
- Low profile surface mounted application in order to optimize board space.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction. Suffix
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

### ■ Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DO-214AC / SMA
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Weight : 0.002 ounce, 0.055 gram

### ■ 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%.



Dimensions in inches and (millimeters)

Type Number	Symbol	SS	SS	SS	SS	SS	SS	UNITS
		32LC	34LC	36LC	310LC	315LC	320LA	
Marking code		SS 32L	SS 34L	SS 36L	SS 310L	SS 315L	SS 320L	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	100	150	200	V
Maxium RMS Voltage	V <sub>RMS</sub>	14	28	42	70	105	140	V
Maxium DC Blocking Voltage	V <sub>DC</sub>	20	40	60	100	150	200	V
Average Rectified Output Current (Note 1) @T <sub>L</sub> =100°C	I <sub>F(AV)</sub>	3.0						A
Peak forward surge current:8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	80						A
Forward Voltage @I <sub>F</sub> =2.0A	V <sub>FM</sub>	0.45	0.55	0.75	0.85			V
Peak Reverse Current @T <sub>A</sub> =25°C	I <sub>R</sub>	0.5						mA
At Rated DC Blocking Voltage @T <sub>A</sub> =100°C	I <sub>R</sub>	20						mA
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	250						pF
Typical Thermal Resistance Junction to Ambient(Note 1)	R <sub>θJA</sub>	55						°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150				-55 to +175		°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +175						°C

Note: 1.Leads maintained at ambient temperature at a distance of 9.5mm from the case.

2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Rating and characteristic curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

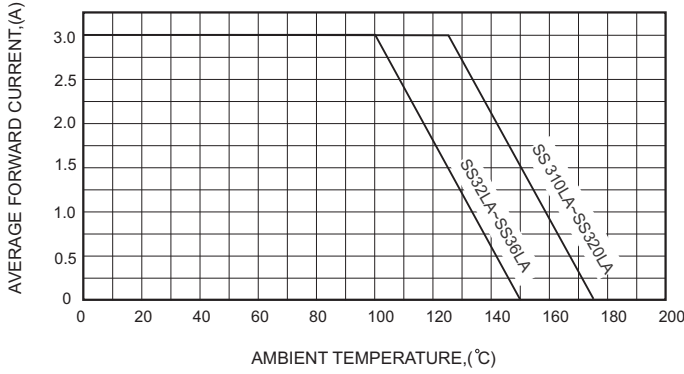


FIG.2-TYPICAL FORWARD CHARACTERISTICS

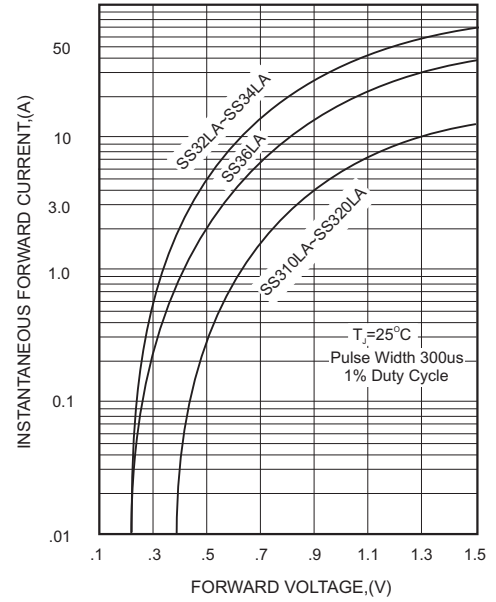


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

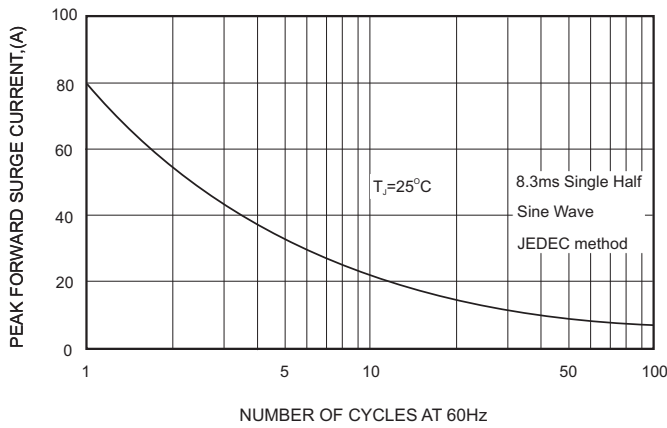


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

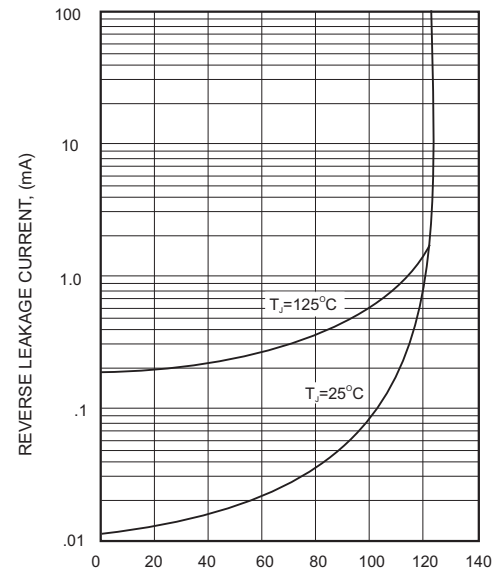
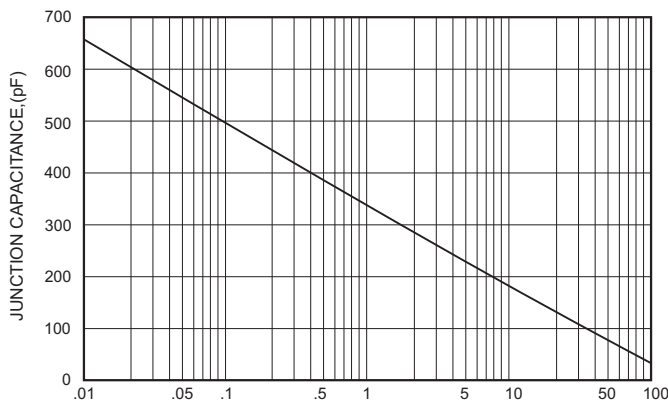
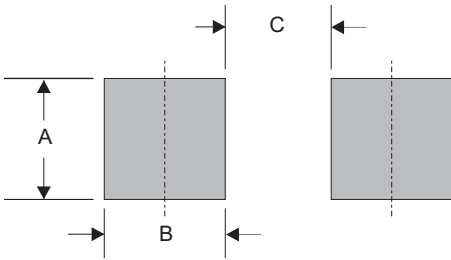


FIG.4-TYPICAL JUNCTION CAPACITANCE



■ SMA foot print



A	B	C
0.068 (1.70)	0.104 (2.60)	0.060 (1.50)

Dimensions in inches and (millimeters)

PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMA	5000/REEL	80000	36X30.6X31	12.00	11.00