



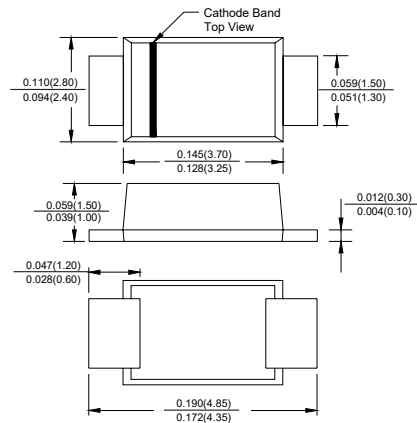
■ Features

- 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

SMAF



Dimensions in inches and (millimeters)

■ 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%.

Type Number	Symbol	SS32 LF	SS34 LF	SS36 LF	SS310 LF	SS315 LF	SS320 LF	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	100	150	200	V
Maxium RMS Voltage	V_{RMS}	14	28	42	70	105	140	V
Maxium DC Blocking Voltage	V_{DC}	20	40	60	100	150	200	V
Average Rectified Output Current (Note 1) @ $T_L=100^{\circ}C$	$I_{F(AV)}$	3.0						A
Peak forward surge current:8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80						A
Forward Voltage @ $I_F=2.0A$	V_{FM}	0.45	0.55	0.65	0.82			V
Peak Reverse Current @ $T_A=25^{\circ}C$	I_R	0.5						mA
At Rated DC Blocking Voltage @ $T_A=100^{\circ}C$	I_{R}	20						mA
Typical Junction Capacitance (Note 2)	C_J	250						pF
Typical Thermal Resistance Junction to Ambient(Note 1)	$R_{\theta JA}$	55						$^{\circ}C/W$
Operating Temperature Range	T_J	-55 to +150						$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +175						$^{\circ}C$

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.

mensions in inches and (millimeters)SS315

Rating and characteristic curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

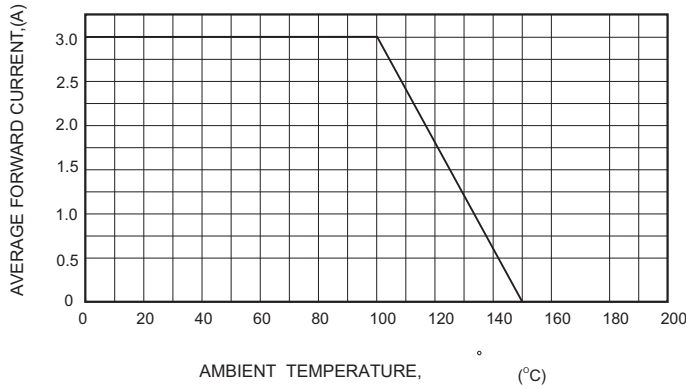


FIG.2-TYPICAL FORWARD CHARACTERISTICS

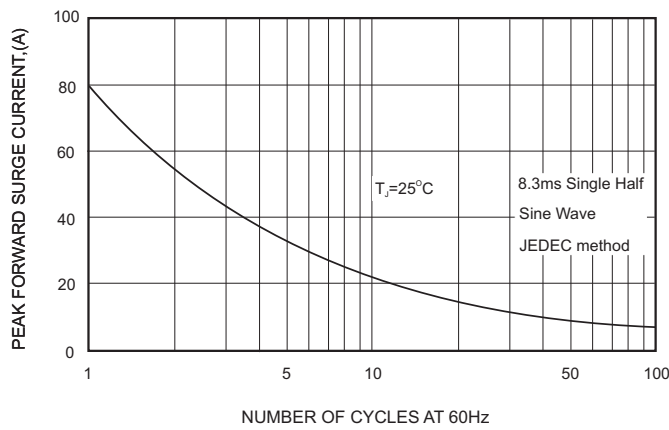
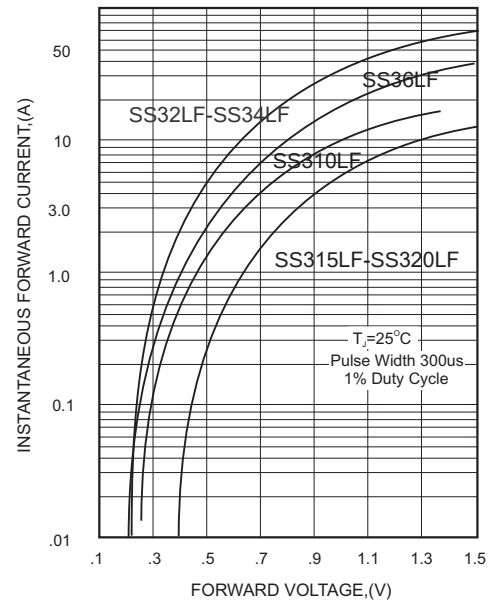


FIG.4-TYPICAL JUNCTION CAPACITANCE

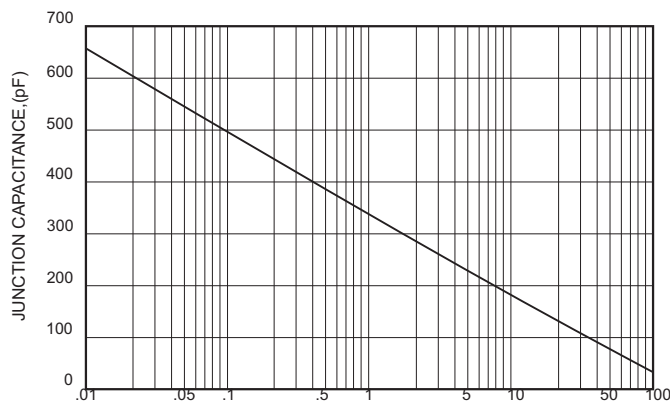
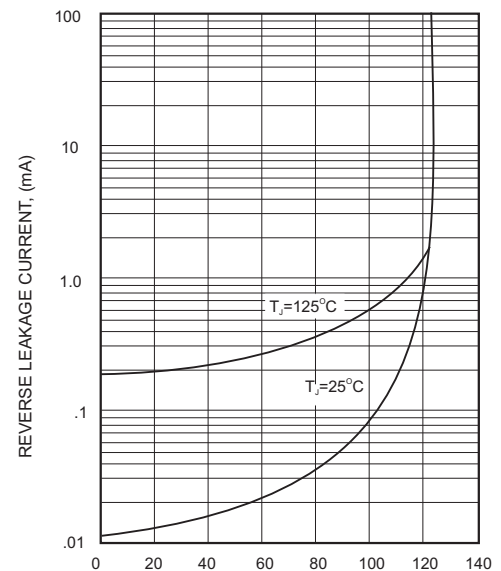


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMAF	3000/REEL	120000	38X38X20	8.5	7.5