



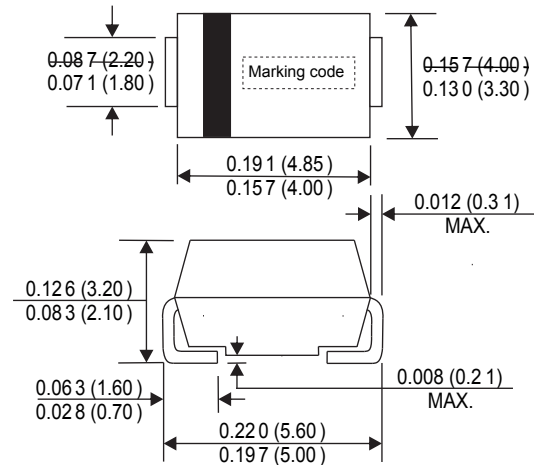
■ Features

- Electrostatic discharge (ESD) test under IEC6100-4-2 standard >16KV(SS32T~SS36T).
standard >10KV(SS310T~SS320T).
- 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-214AA / SMB
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Indicated by cathode band
- Weight : 0.003 ounce, 0.091 gram

SMB(DO-214AA)



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 Nummer	Symbol	SS 32T	SS 34T	SS 36T	SS 310T	SS 315T	SS 320T	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°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	0.85		V
Peak Reverse Current @T _A =25°C	I _R	0.05			0.02			mA
At Rated DC Blocking Voltage @T _A =100°C	I _R	20						mA
Typical Junction Capacitance (Note 2)	C _J	250						pF
Typical Thermal Resistance Junction toAmbient(Note 1)	R _{θJA}	55						°C/W
Operating Temperature Range	T _J	-55 to +150						°C
Storage Temperature Range	T _{STG}	-55 to +150						°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

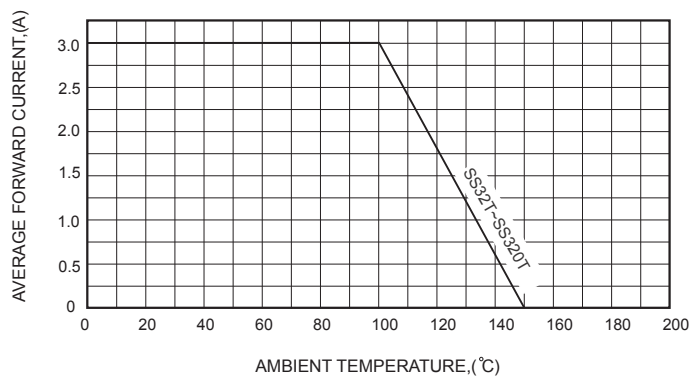


FIG.2-TYPICAL FORWARD CHARACTERISTICS

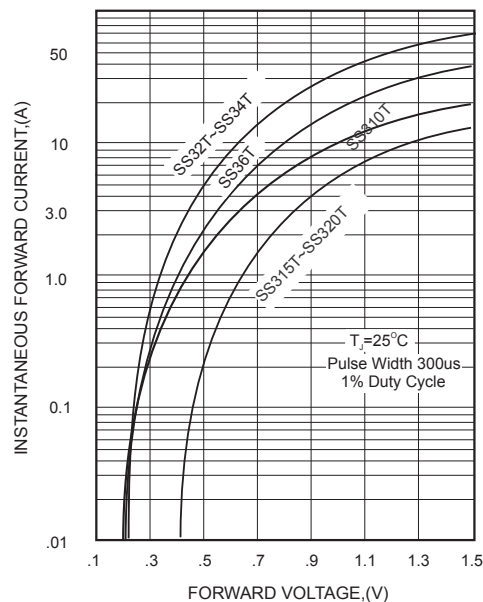


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

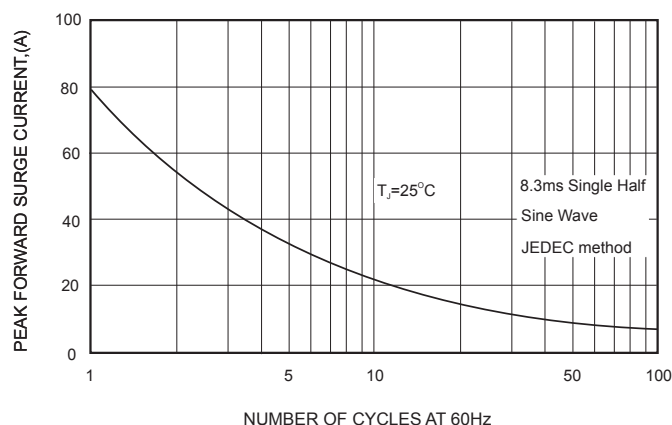


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

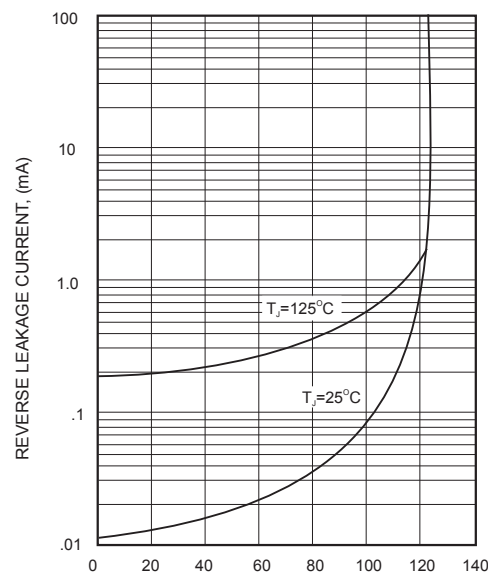
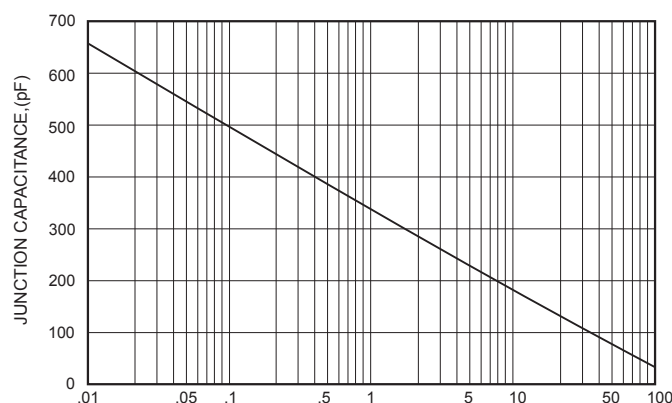
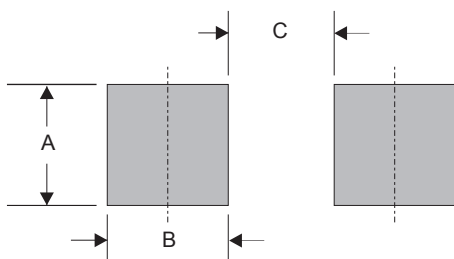


FIG.4-TYPICAL JUNCTION CAPACITANCE





■ SMB foot print



A	B	C
0.091 (2.30)	0.098 (2.50)	0.071 (1.80)

Dimensions in inches and (millimeters)

PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMB	3000/REEL	48000	36X35.8X36.5	12.00	11.00