



■ Features

- Electrostatic discharge (ESD) test under IEC6100-4-2 standard >16KV(SK22LA~SK26LA). standard >10KV(SK210LA~SK220LA).
- 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

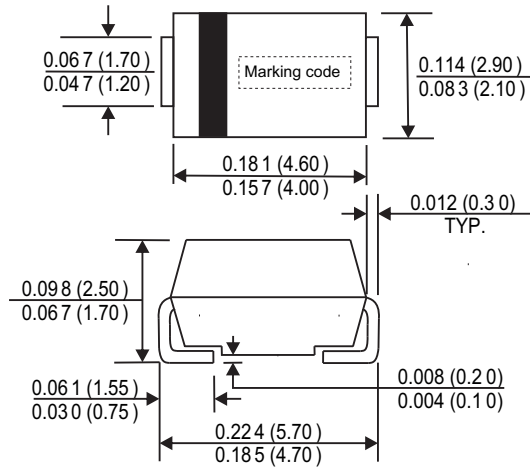
■ Mechanical data

- 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%.

SMA(DO-214AC)



Parameters	Symbol	SK 24LA	SK 25LA	SK 26LA	SK 210LA	SK 215LA	SK 220LA	
Marking code		SK 24L	SK 25L	SK 26L	SK 210L	SK 215L	SK 220L	UNIS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	50	60	100	150	200	V
Maxium RMS Voltage	V_{RMS}	28	35	42	70	105	140	V
Maxium DC Blocking Voltage	V_{DC}	40	50	60	100	150	200	V
Average Rectified Output Current (Note 1) @ $T_L=100^\circ C$	$I_{F(AV)}$	2.0						A
Peak forward surge current:8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50						A
Forward Voltage @ $I_F=2.0A$	V_{FM}	0.45	0.55	0.75	0.85			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	180						pF
Typical Thermal Resistance Junction to Ambient(Note 1)	$R_{\theta JA}$	50						$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150				-55 to +175		$^\circ C$
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.

Dimensions in inches and (millimeters)



■ Rating and characteristic curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

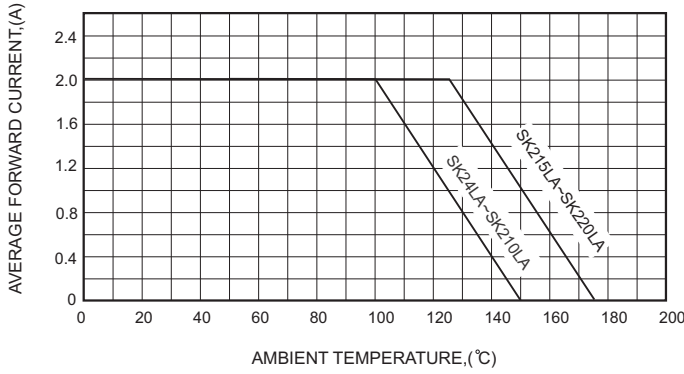


FIG.2-TYPICAL FORWARD CHARACTERISTICS

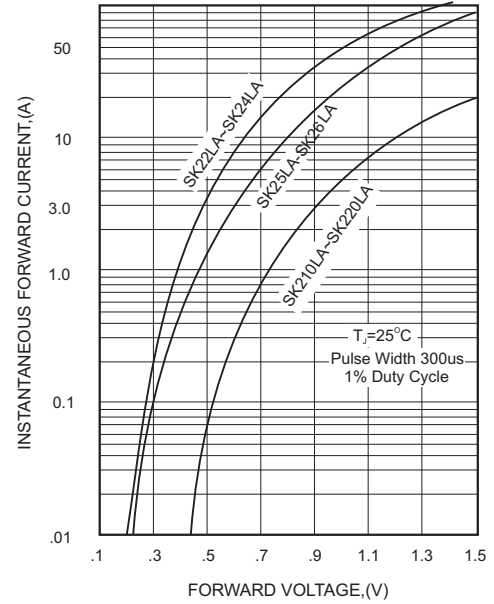


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

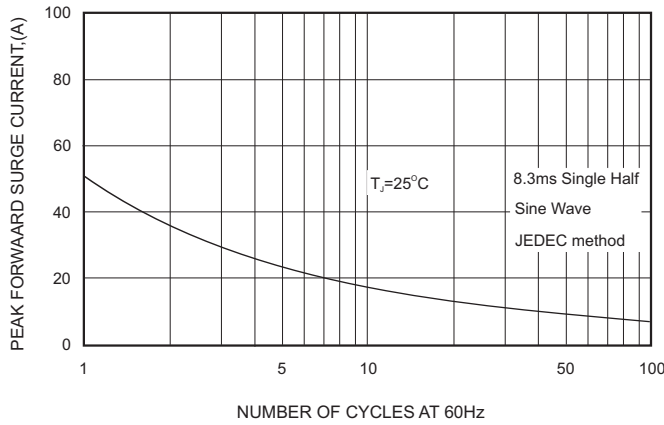


FIG.4-TYPICAL JUNCTION CAPACITANCE

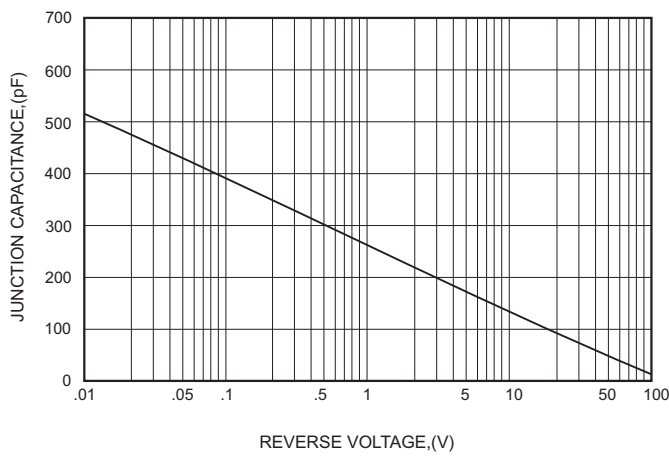
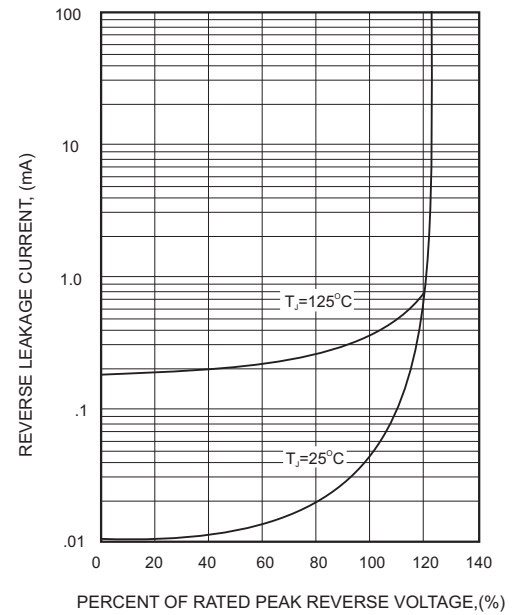
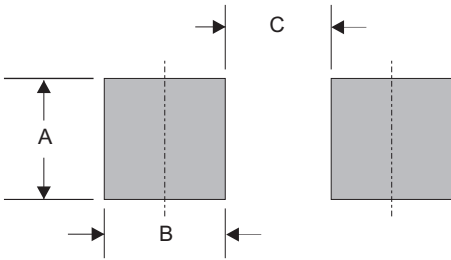


FIG.5 - TYPICAL REVERSE CHARACTERISTICS





■ 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