

**REVERSE VOLTAGE: 20 - 100 V**  
**FORWARD CURRENT: 1.0 A**



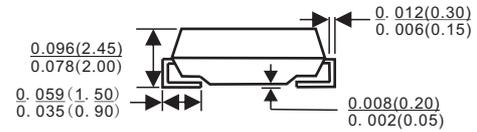
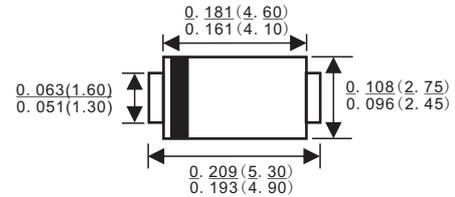
## Features

- ✧ Schottky barrier rectifier
- ✧ Guardring protection
- ✧ Low forward voltage
- ✧ Reverse energy tested
- ✧ High current capability
- ✧ Extremely low thermal resistance

## Mechanical Data

- ✧ Case: SMA molded plastic body
- ✧ Polarity: Color band denotes cathode end
- ✧ Mounting position: ANY
- ✧ Weight: 0.002 ounces, 0.064 gram

## SMA/DO-214AC



Dimensions in inches and(millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

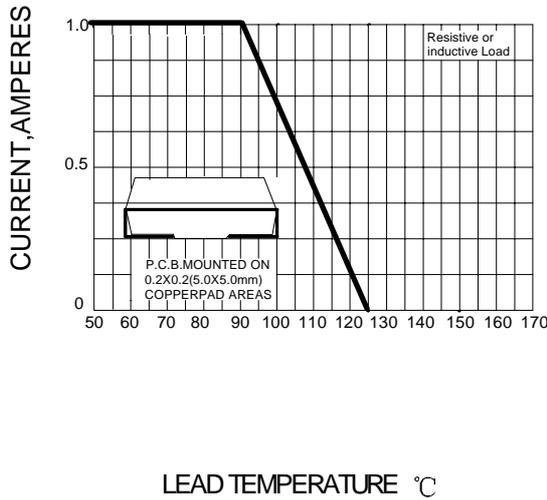
Ratings at 25°C ambient temperature unless otherwise specified

Device marking code		SK12	SK13	SK14	SK15	SK16	SK18	SK19	SK110	UNITS	
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	V	
Maximum RMS voltage	$V_{RWS}$	14	21	28	35	42	56	63	70	V	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	90	100	V	
Maximum average forward rectified current at $T_L=90^\circ\text{C}$	$I_{F(AV)}$	1.0								A	
Peak forward surge current 8.3ms single half-sine-wave	$I_{FSM}$	30.0								A	
Maximum instantaneous forward voltage at $I_{FM}=1.0\text{A}$ (NOTE1)	$V_F$	0.50			0.70		0.85			V	
Maximum DC reverse current $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=100^\circ\text{C}$	$I_R$	0.5					20				m A
Maximum thermal resistance	$R_{\theta JL}$	35.0								$^\circ\text{C/W}$	
Operating temperature range	$T_J$	-55 ---- +125								$^\circ\text{C}$	
Storage temperature range	$T_{STG}$	-55 ---- +150								$^\circ\text{C}$	

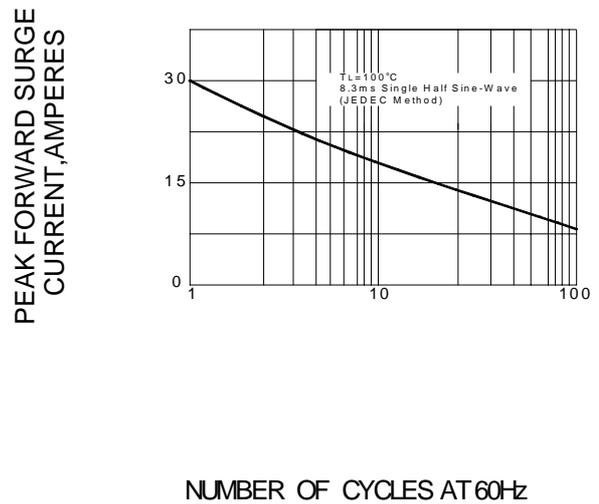
NOTE: 1.Pulse test: Pulse width 300us,duty cycle 1 %

## Ratings AND Characteristic Curves

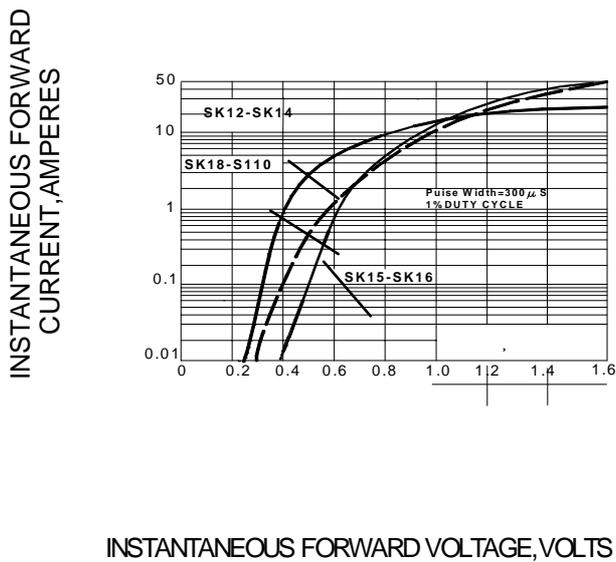
**FIG.1 – FORWARD DERATING CURVE**



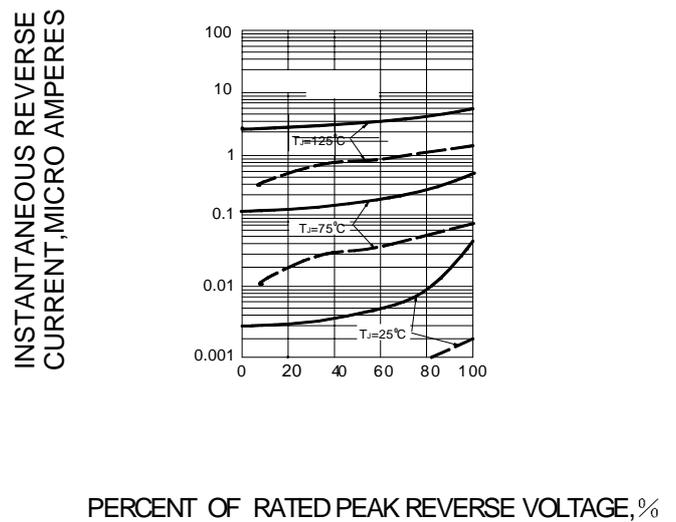
**FIG.2– PEAK FORWARD SURGE CURRENT**



**FIG.3 – TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 – TYPICAL REVERSE CHARACTERISTICS**



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