

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

### FEATURES

- High Current Capability
- High Surge Current Capability
- Low Reverse Current

### MECHANICAL DATA

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band

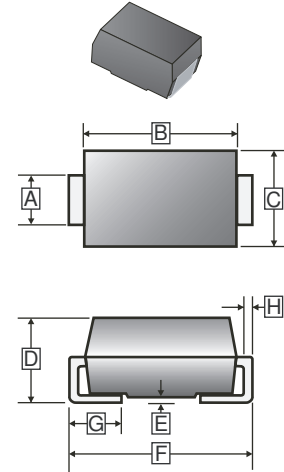
### PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch

### ORDER INFORMATION

Part Number	Type
SK5150A-C	Lead (Pb)-free and Halogen-free

**SMA**



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.23	1.65	E	-	0.3
B	3.99	4.75	F	4.80	5.28
C	2.30	2.90	G	0.75	1.52
D	1.90	2.62	H	0.15	0.31

Cathode  Anode

### ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	150	V
Maximum RMS Voltage	$V_{RMS}$	105	V
Maximum DC Blocking Voltage	$V_{DC}$	150	V
Maximum Average Forward Rectified Current	$I_F$	5	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	80	A
Typical Thermal Resistance	$R_{\theta JC}$	20	$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	150, -55~150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Typ.	Max.	Unit	Test Conditions
Maximum Instantaneous Forward Voltage	$V_F$	0.7	-	V	$I_F=2A, T_A=25^\circ\text{C}$
		-	0.84		$I_F=5A, T_A=25^\circ\text{C}$
Maximum DC Reverse Current @Rated DC Blocking Voltage	$I_R$	-	0.2	mA	$T_A=25^\circ\text{C}$
		-	5		$T_A=100^\circ\text{C}$
Typical Junction Capacitance <sup>1</sup>	$C_J$	280	-	pF	

Note:

1. Measured at 1MHz and applied reverse voltage of 4V D.C.

**RATINGS AND CHARACTERISTIC CURVES**

FIG. 1-Typical Forward Current Derating Curve

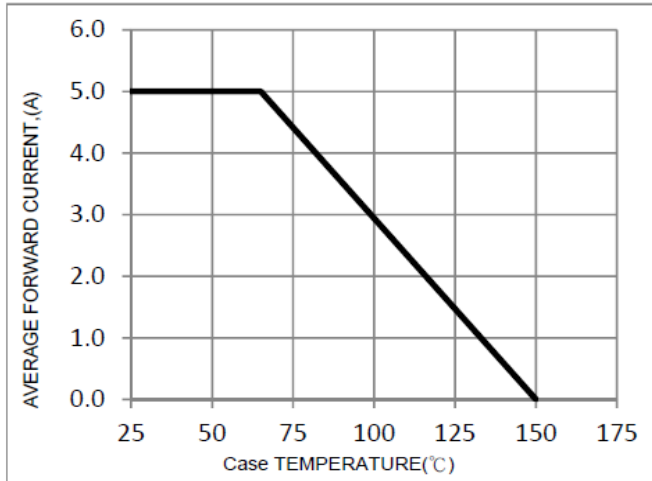


FIG. 2-Typical Forward Characteristics

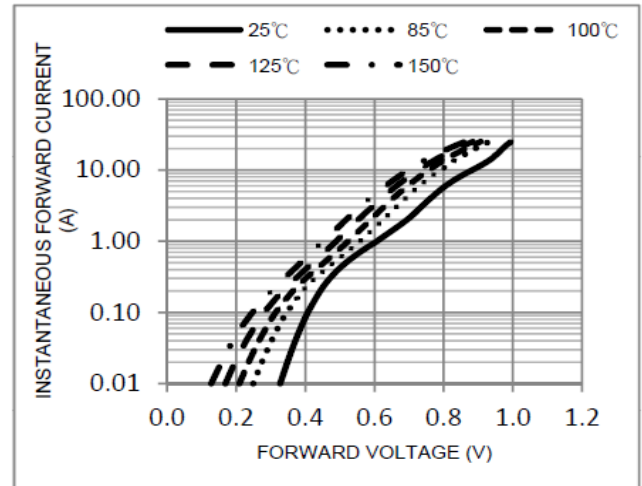


FIG. 3-Maximum Non-Repetitive Forward Surge Current

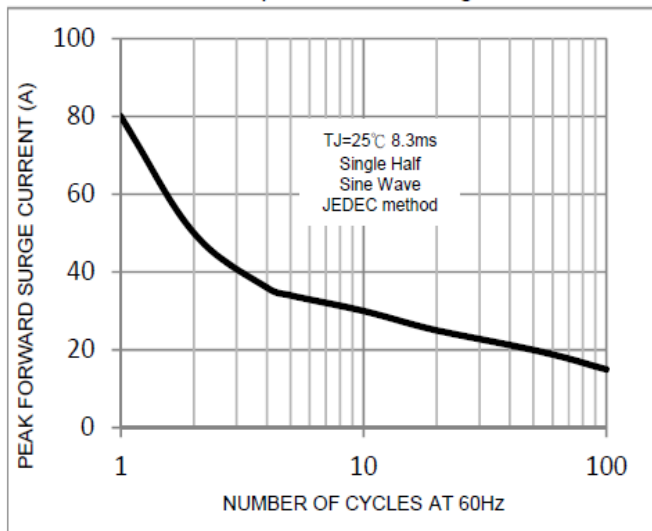


FIG. 4-Typical Reverse Characteristics

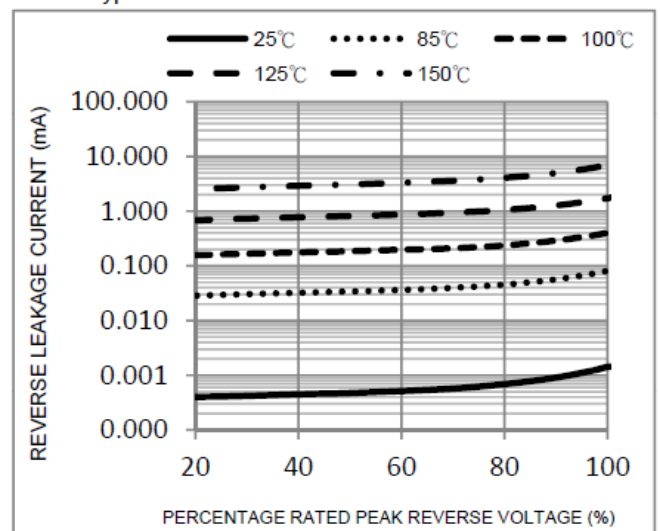


FIG. 5-Typical Junction Capacitance

