

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

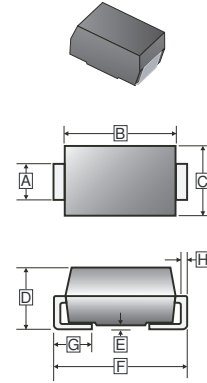
**FEATURES**

- Ideal for Automated Placement
- Low Forward Voltage Drop
- Low Leakage Current
- Meets Environmental Standard MIL-S-19500D
- Moisture Sensitivity: Level 1, per J-STD-020  
Solder dip 275°C, 10s

**MECHANICAL DATA**

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Terminals: Matte Tin Plated Leads, Solderable per J-STD-002 and JESD22B-106
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

**SMA**



**PACKAGE INFORMATION**

Package	MPQ	Leader Size
SMA	5K	13 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.23	1.65	E	-	0.3
B	3.99	4.75	F	4.70	5.28
C	2.30	2.90	G	0.75	1.52
D	1.90	2.62	H	0.15	0.31

**ORDER INFORMATION**

Part Number	Type
SK34AL-C	Lead (Pb)-free and Halogen-free



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Ratings	Unit	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V	
Maximum RMS Voltage	$V_{RMS}$	28		
Maximum DC Blocking Voltage	$V_{DC}$	40		
Maximum Average Forward Rectified Current	$I_F$	3	A	
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	80	A	
Maximum Instantaneous Forward Voltage @ $I_F=3A$	$V_F$	0.42	V	
Maximum DC Reverse Current @ Rated DC Blocking Voltage	$I_R$	$T_A=25^\circ C$	0.2	mA
		$T_A=100^\circ C$	50	
Typical Junction Capacitance <sup>1</sup>	$C_J$	285	pF	
Typical Thermal Resistance <sup>2</sup>	$R_{\theta JA}$	80	°C/W	
	$R_{\theta JC}$	20		
Operating Temperature Range	$T_J$	-55~125	°C	
Storage Temperature Range	$T_{STG}$	-55~150		

Notes:

1. Measured at 1MHz and applied reverse voltage of 4V D.C.
2. Thermal resistance from junction to ambient and from junction to case mounted on P.C.B. with 0.197" x 0.197" (5mm x 5mm) copper pad areas

**RATINGS AND CHARACTERISTIC CURVES**

Figure 1. Forward Current Derating Curve

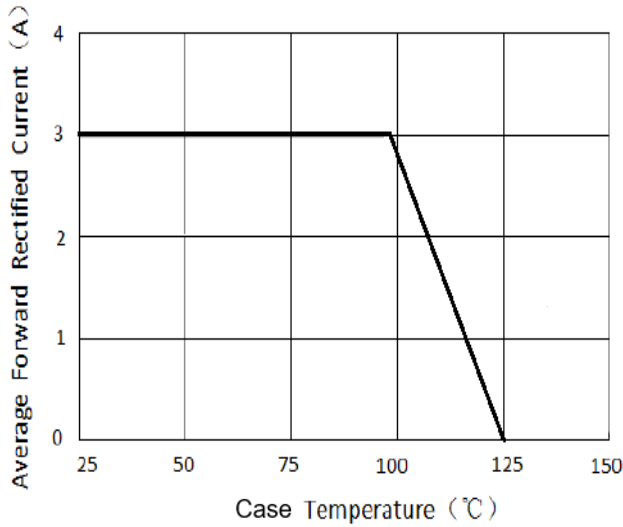


Figure 2. Maximum Non-repetitive Peak Forward Surge Current

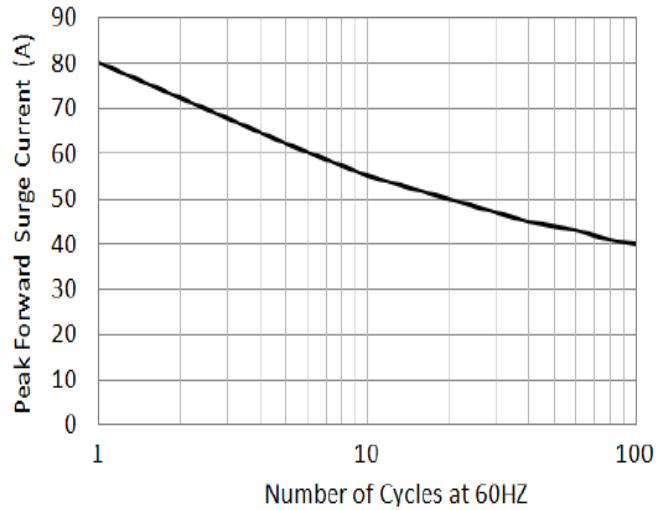


Figure 3. Typical Instantaneous Forward Characteristics

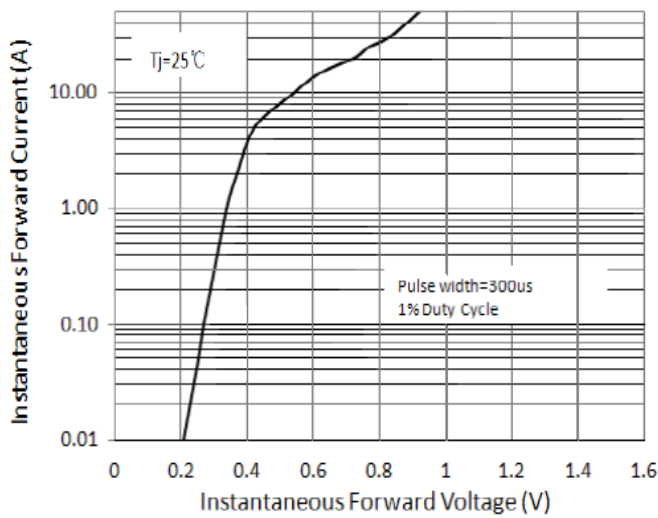


Figure 4. Typical Reverse Characteristics

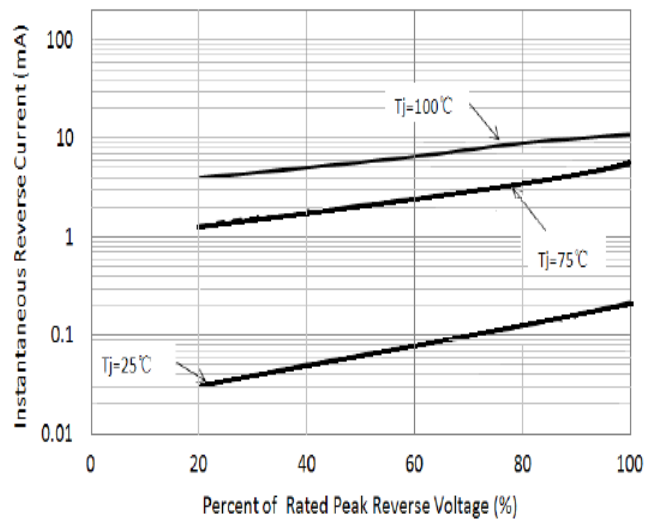


Figure 5. Typical Junction Capacitance

