

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

FEATURES

- Ideal for Automated Placement
- Low Profile Package
- Guard Ring for Over Voltage Protection
- Low Forward Voltage Drop

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Terminals: Lead Free Plating (Tin Finish)
Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band

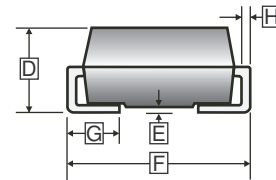
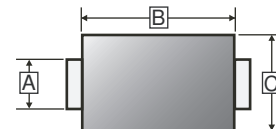
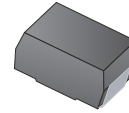
PACKAGE INFORMATION

Package	MPQ	Leader Size
SMC	3K	13 inch

ORDER INFORMATION

Part Number	Type
SK10100C-C	Lead (Pb)-free and Halogen-free

SMC



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.75	3.27	E	-	0.203
B	6.52	7.11	F	7.64	8.17
C	5.50	6.22	G	0.75	1.60
D	1.98	2.62	H	0.23 TYP.	

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}	100	V
Maximum RMS Voltage	V_{RMS}	70	
Maximum DC Blocking Voltage	V_{DC}	100	
Maximum Average Forward Current	I_F	10	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100	A
Maximum Instantaneous Forward Voltage @ $I_F=10A$	V_F	0.7	V
Maximum DC Reverse Current @ Rated DC Blocking Voltage	$T_A=25^\circ C$	0.2	mA
	$T_A=100^\circ C$	20	
Typical Junction Capacitance ¹	C_J	820	pF
Typical Thermal Resistance	$R_{\theta JC}$	20	°C/W
Operating Junction & Storage Temperature Range	T_J, T_{STG}	-55~150	°C

Note:

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

CHARACTERISTIC CURVES

FIG. 1-Typical Forward Current Derating Curve

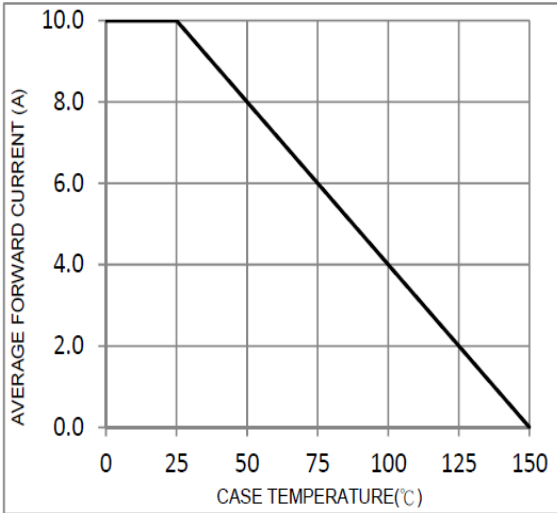


FIG. 2-Typical Forward Characteristics

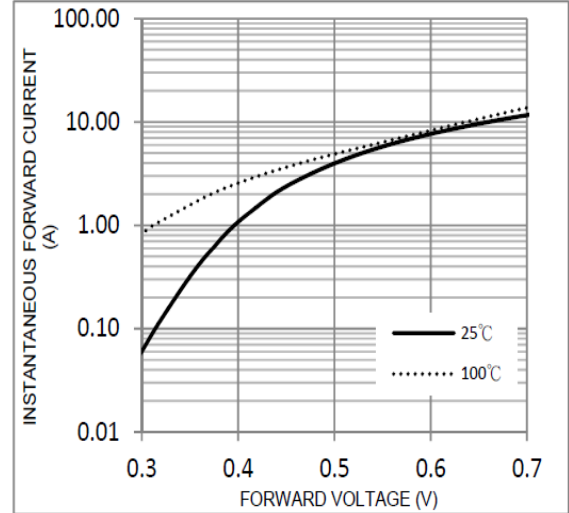


FIG. 3-Maximum Non-Repetitive Forward Surge Current

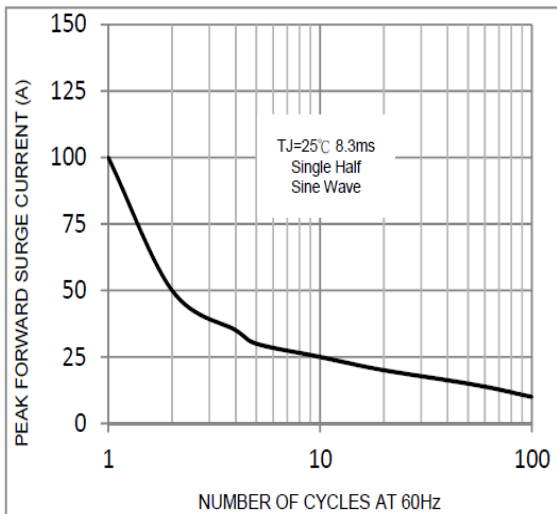


FIG. 4-Typical Reverse Characteristics

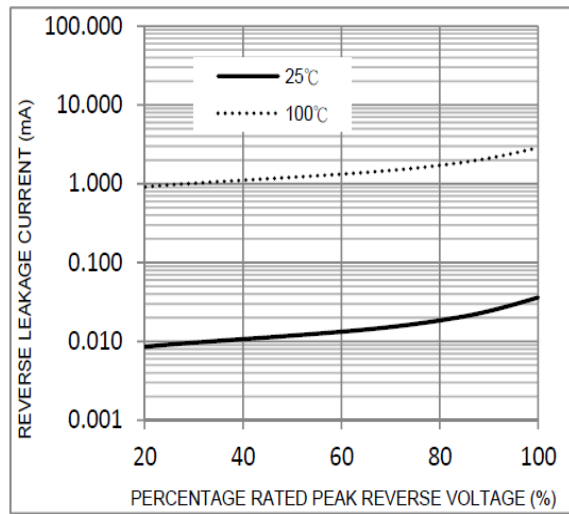


FIG. 5-Typical Junction Capacitance

