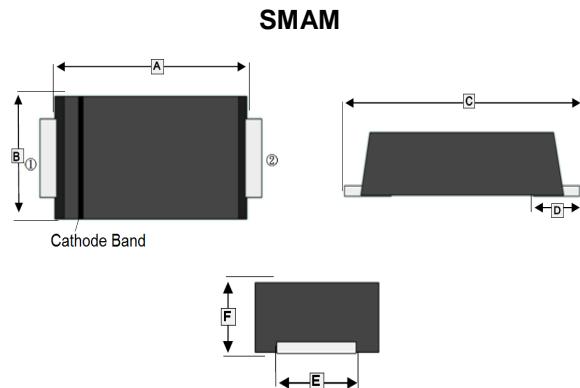


RoHS Compliant Product
A suffix of "C" specifies halogen & lead-free

FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications



MECHANICAL DATA

- Case Material: SMAM
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band

MARKING

SL510

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	3.20	3.70	D	1	TYP.
B	2.40	2.80	E	1.30	1.60
C	4.40	4.90	F	0.90	1.25

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMAM	3K	7 inch

① Cathode ② Anode

ORDER INFORMATION

Part Number	Type
SK5100AM-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}	100		V
Maximum RMS Voltage	V _{RMS}	70		V
Maximum DC Blocking Voltage	V _{DC}	100		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}	150		A
Maximum Instantaneous Forward Voltage @5A	V _F	0.6		V
Maximum DC Reverse Current @DC Blocking Voltage	I _R	1	mA	
		50		
Typical Junction Capacitance ¹	C _J	280		pF
Typical Thermal Resistance ²	R _{θJL}	22		°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55~150		°C

Notes:

1. Measured at 1 MHz and applied reverse voltage of 4V D.C.
2. P.C.B. mounted with 2.0" X 2.0" (5 X 5cm) copper pad areas.

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

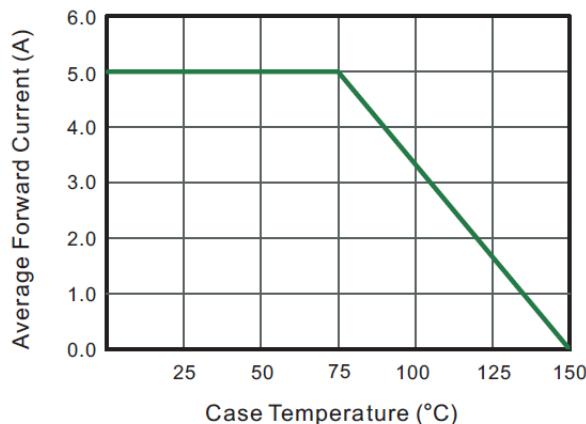


Fig.2 Typical Reverse Characteristics

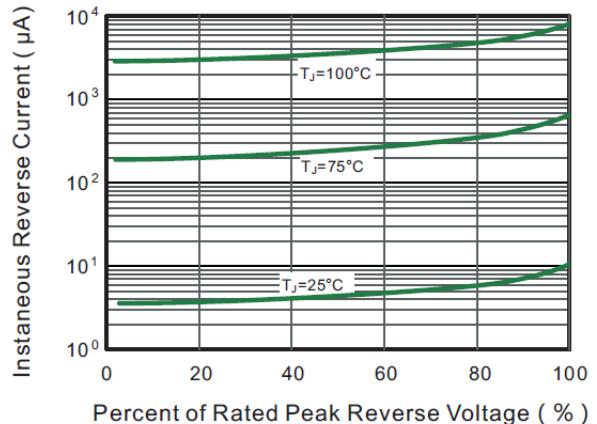


Fig.3 Typical Forward Characteristic

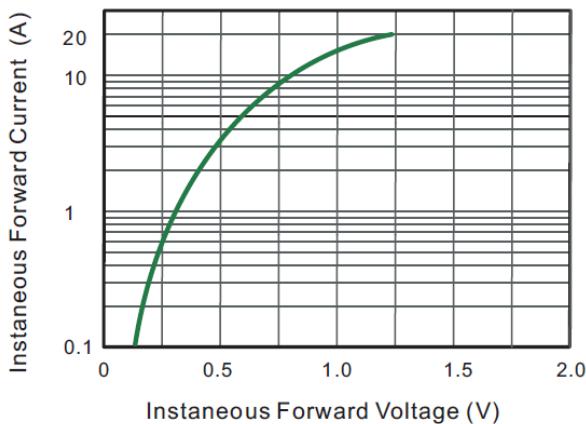


Fig.4 Typical Junction Capacitance

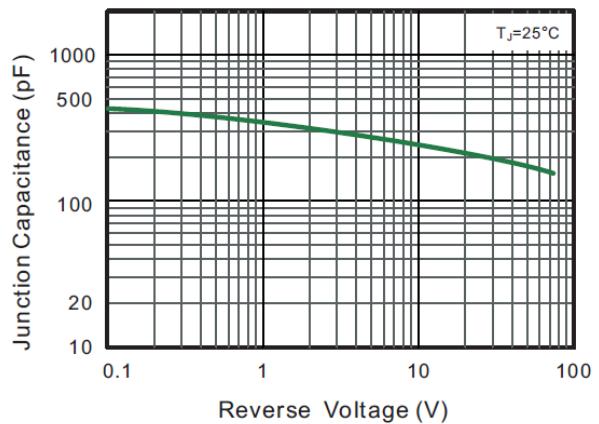


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

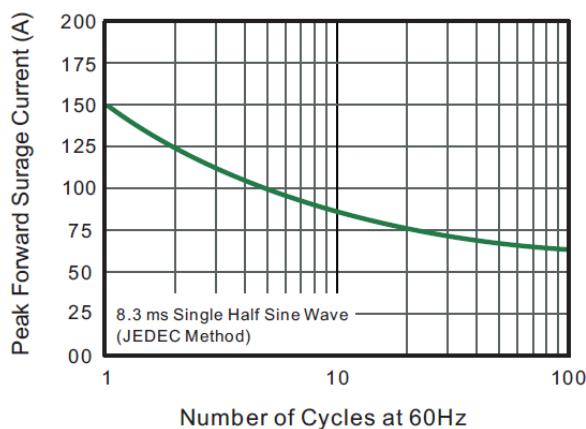


Fig.6-Typical Transient Thermal Impedance

