Elektronische Bauelemente

SK560AM-C

Voltage 60V, 5A

Low V_F Schottky Barrier Rectifiers

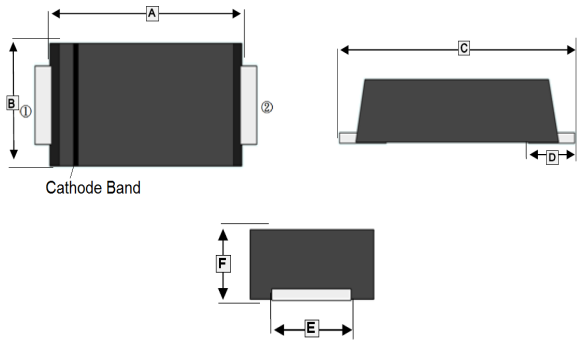
RoHS Compliant Product

A suffix of “-C” specifies halogen & lead-free

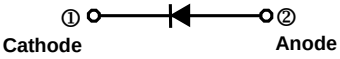
FEATURES

- 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

SMAM



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



MECHANICAL DATA

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

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMAM	3K	7 inch

ORDER INFORMATION

Part Number	Type
SK560AM-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25℃ ambient temperature unless otherwise s pecified. 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}	60	V
Maximum RMS Voltage		V_{RMS}	42	V
Maximum DC Blocking Voltage		V_{DC}	60	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	0.5	V
Maximum DC Reverse Current @DC Blocking Voltage	T_A=25℃	I_R	1	mA
	T_A=100℃		50	
Typical Junction Capacitance [1]		C_J	200	pF
Typical Thermal Resistance [2]		$R_{\theta JL}$	22	℃/W
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55~150	℃

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

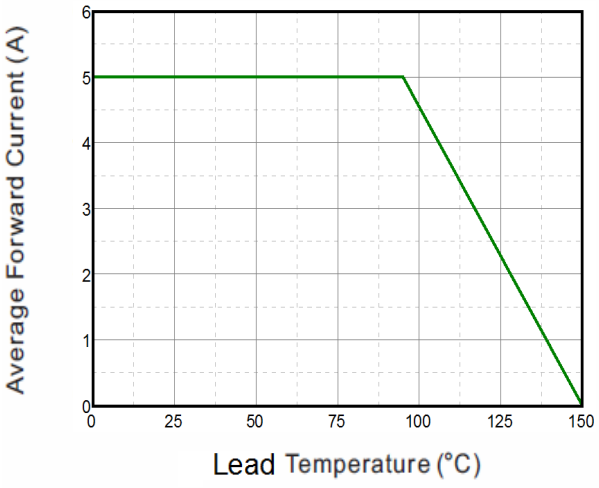


Fig.2 Typical Reverse Characteristics

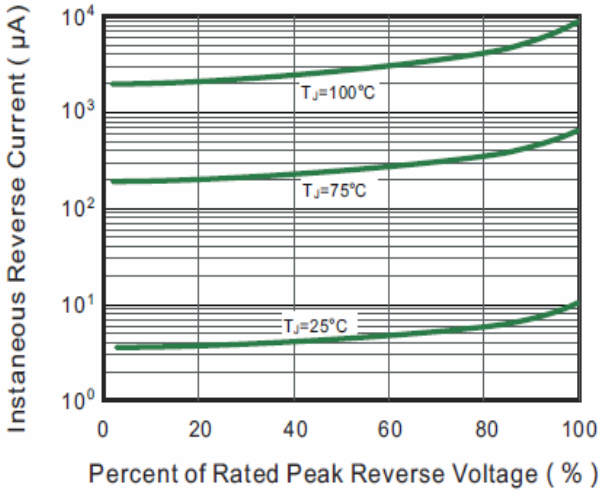


Fig.3 Typical Forward Characteristic

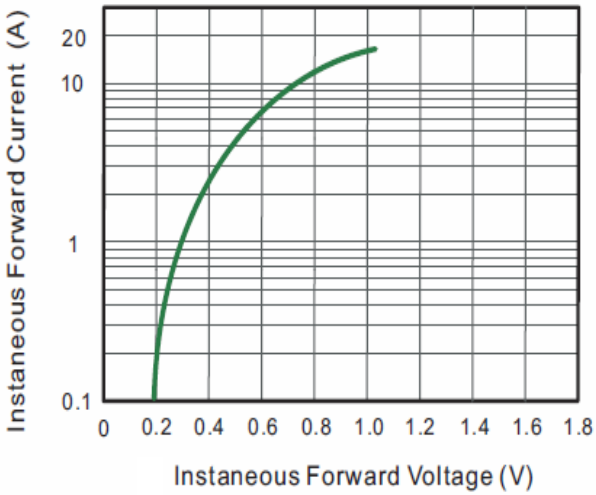


Fig.4 Typical Junction Capacitance

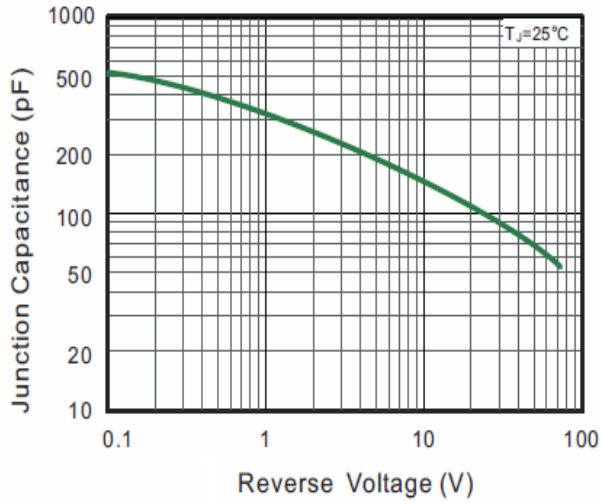


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

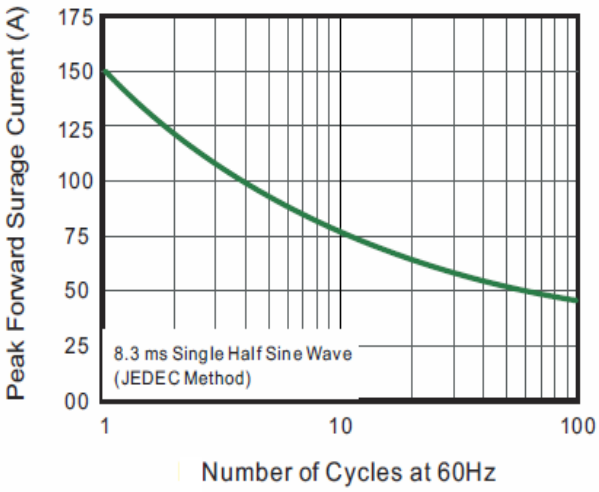


Fig.6- Typical Transient Thermal Impedance