Elektronische Bauelemente

SM520AM-C~SM5200AM-C

Voltage 20 ~ 200 V

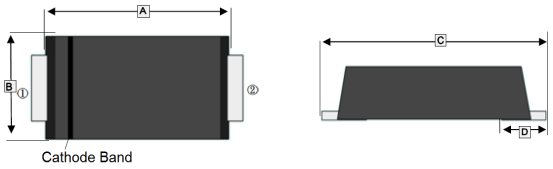
5.0 AMP Surface Mount Schottky Barrier Rectifiers

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

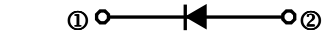
FEATURES

- 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	3.30	3.70	D	0.80	1.20
B	2.40	2.70	E	1.30	1.60
C	4.40	4.90	F	0.90	1.10



Cathode **Anode**

MECHANICAL DATA

- Case : SMAM
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 27 mgram (Approximate)

MARKING

Part Number	Marking Code	Part Number	Marking Code
SM520AM-C	SS54	SM5100AM-C	SS510
SM540AM-C	SS54	SM5150AM-C	SS515
SM560AM-C	SS56	SM5200AM-C	SS520

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMAM	3K	7 inch

ORDER INFORMATION

Part Number	Type
SM520AM-C~SM5200AM-C	Lead (Pb)-free and Halogen-free

ABSOLUTE MAXIMUM RATINGS

(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	Part Number						Unit
			SM520 AM-C	SM540 AM-C	SM560 AM-C	SM5100 AM-C	SM5150 AM-C	SM5200 AM-C	
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	20	40	60	100	150	200	V
Maximum RMS Voltage		V_{RMS}	14	28	42	70	105	140	V
Maximum DC Blocking Voltage		V_{DC}	20	40	60	100	150	200	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 I_F=5A @ 25℃		V_F	0.55		0.7	0.85			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	1						mA
	T_A=100℃		50						
Typical Junction Capacitance [1]		C_J	500		300				pF
Typical Thermal Resistance [2]		$R_{\theta JL}$	22						℃/W
Operating & Storage Temperature		T_J,T_{STG}	-55~150						℃

Notes:
1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. P.C.B. mounted with 10 X 10 x 0.2 mm copper pad areas.

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

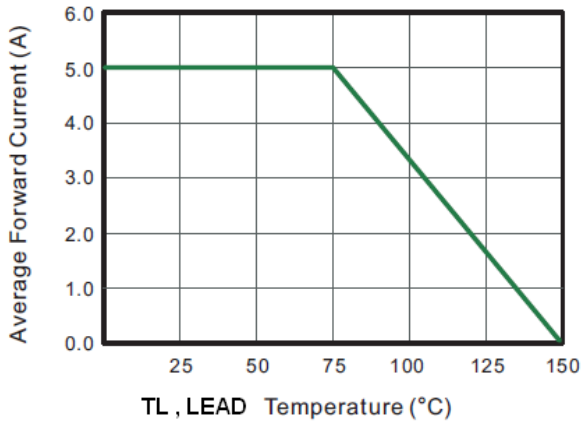

Fig.2 Typical Reverse Characteristics

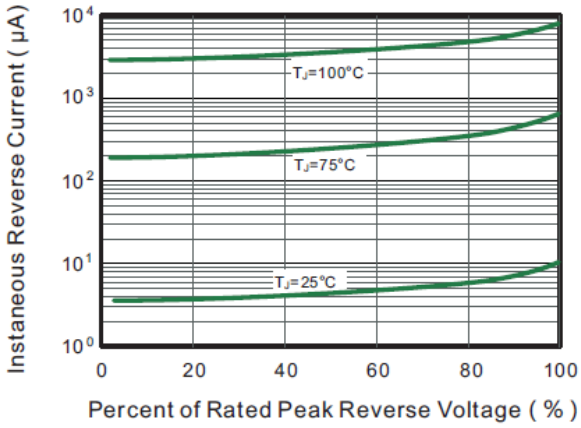

Fig.3 Typical Forward Characteristic

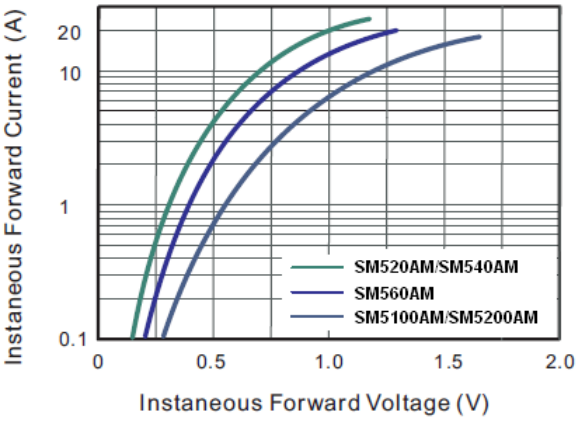

Fig.4 Typical Junction Capacitance

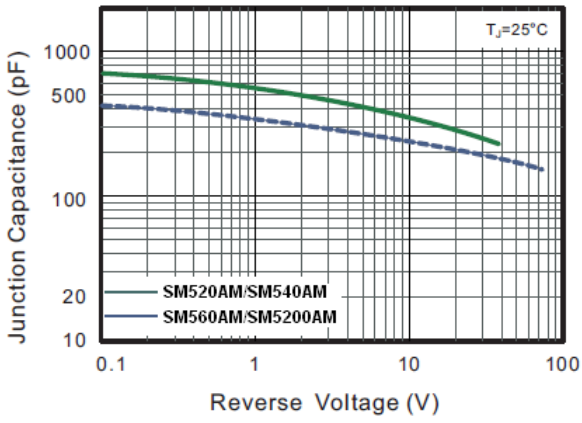

Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

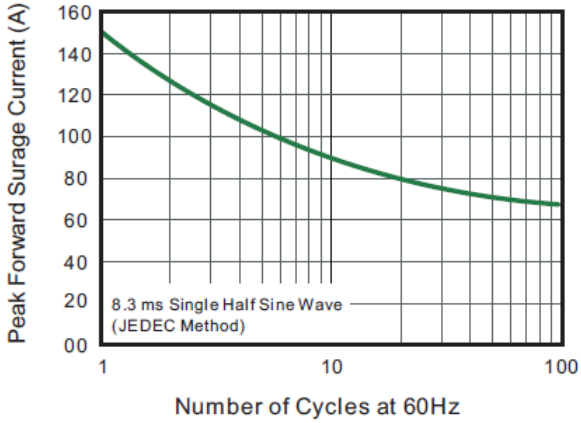

Fig.6- Typical Transient Thermal Impedance