

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

FEATURES

- Low Profile Package
- Glass Passivated Chip Junction
- Low Reverse Current

MECHANICAL DATA

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

MARKING

Part Number	Marking Code	Part Number	Marking Code
SM220AM-C	SS24	SM2100AM-C	SS210
SM240AM-C	SS24	SM2150AM-C	SS215
SM260AM-C	SS26	SM2200AM-C	SS220

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMAM	3K	7 inch

ORDER INFORMATION

Part Number	Type
SM220AM-C~SM2200AM-C	Lead (Pb)-free and Halogen-free

ABSOLUTE MAXIMUM RATINGS

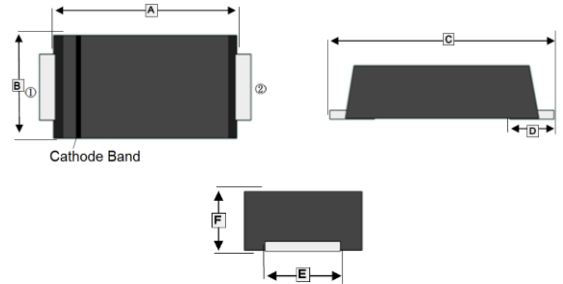
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number						Unit
		SM220 AM-C	SM240 AM-C	SM260 AM-C	SM2100 AM-C	SM2150 AM-C	SM2200 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	
Maximum DC Blocking Voltage	V_{DC}	20	40	60	100	150	200	
Maximum Average Forward Rectified Current	I_F	2						A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50						A
Maximum Instantaneous Forward Voltage $I_F=2A @ 25^\circ C$	V_F	0.55		0.7	0.85	0.95		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	0.5			0.3			mA
	$T_A=100^\circ C$	10			5			
Typical Junction Capacitance ¹	C_J	160			80			pF
Typical Thermal Resistance ²	$R_{\theta JA}$	80						°C/W
Operating & Storage Temperature	T_J, T_{STG}	125, -55~ 150						°C

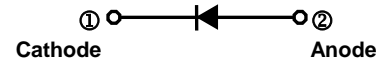
Notes:

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

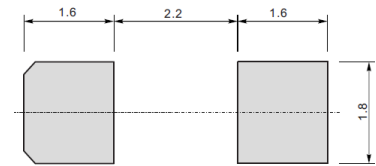
SMAM



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	1.20



Mounting Pad Layout



*Dimensions in millimeters

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

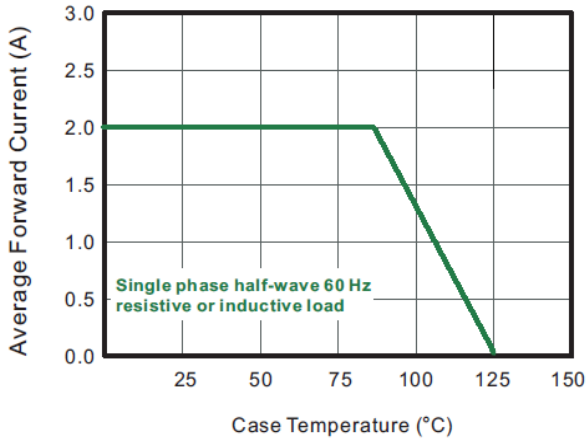


Fig.2 Typical Reverse Characteristics

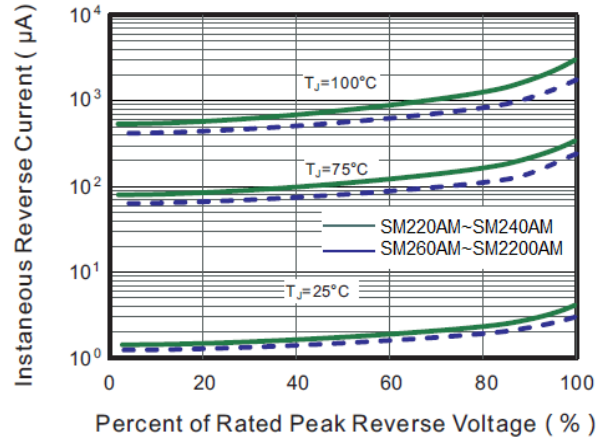


Fig.3 Typical Forward Characteristic

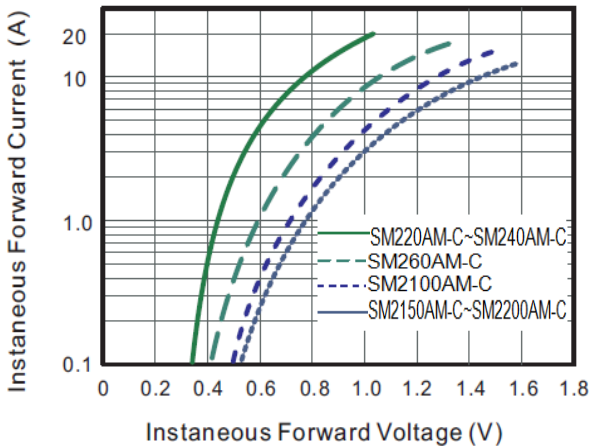


Fig.4 Typical Junction Capacitance

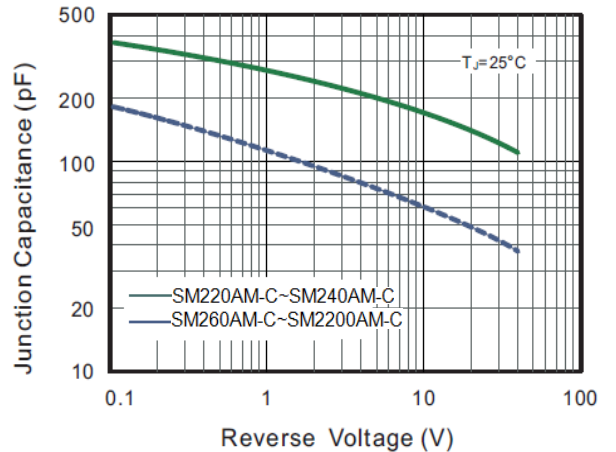


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

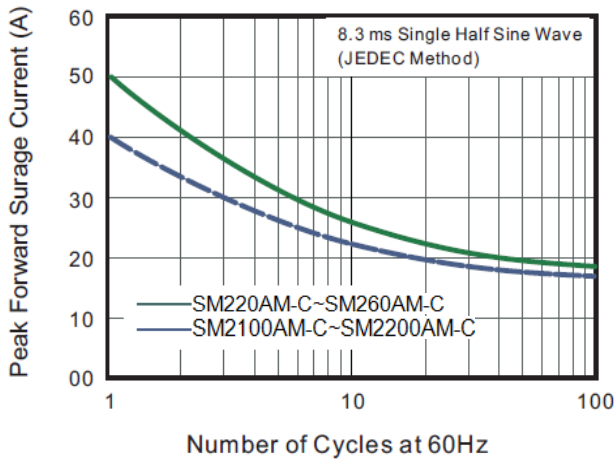


Fig.6 Typical Transient Thermal Impedance

