

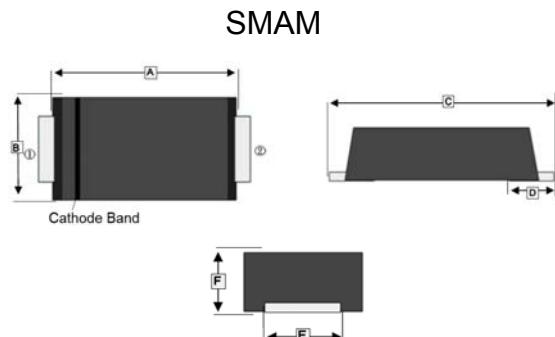
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

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 mgram (Approximate)



MARKING

Part Number	Marking Code	Part Number	Marking Code
SM120AM	SS14	SM1100AM	SS110
SM140AM	SS14	SM1150AM	SS115
SM160AM	SS16	SM1200AM	SS120

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

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMAM	3K	7 inch

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				
		SM 120AM	SM 140AM	SM 160AM	SM 1100AM	SM 1150AM	SM 1200AM					
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	1						A				
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30						A				
Maximum Instantaneous Forward Voltage I _F =1A	V _F	0.55		0.7	0.85	0.9		V				
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.3			0.2	0.1		mA				
		10			5	2						
Typical Junction Capacitance ¹	C _J	110		80				pF				
Typical Thermal Resistance ²	R _{θJL}	22						°C/W				
Typical Thermal Resistance ²	R _{θJC}	30						°C/W				
Operating & Storage Temperature	T _J , T _{STG}	-55~125, -55~ 150						°C				

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.

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

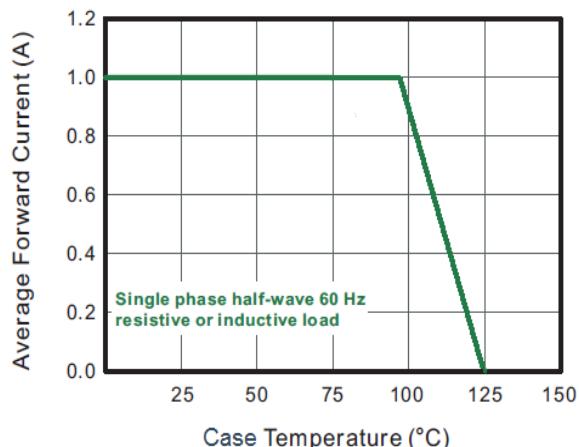


Fig.2 Typical Reverse Characteristics

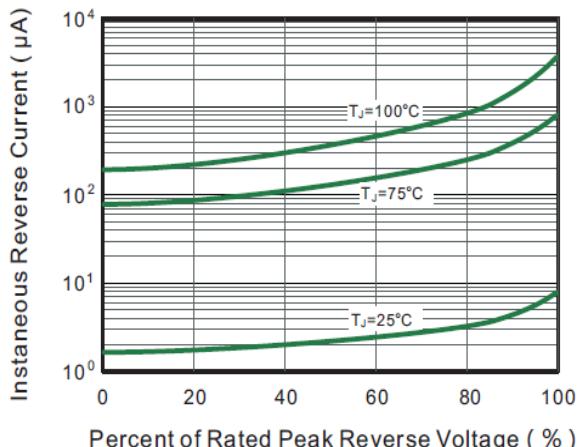


Fig.3 Typical Forward Characteristic

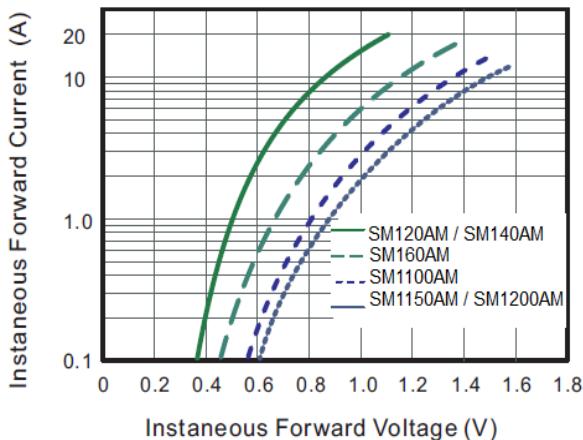


Fig.4 Typical Junction Capacitance

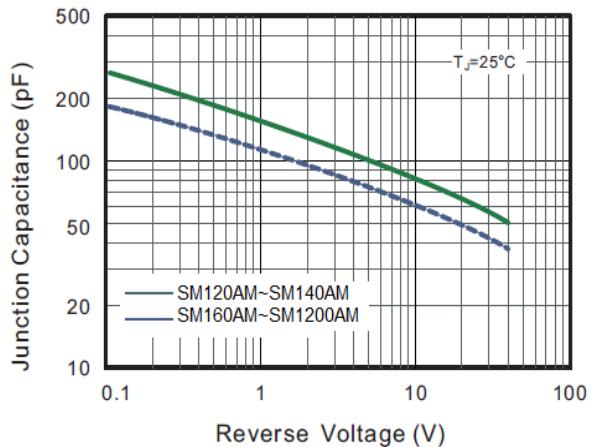


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

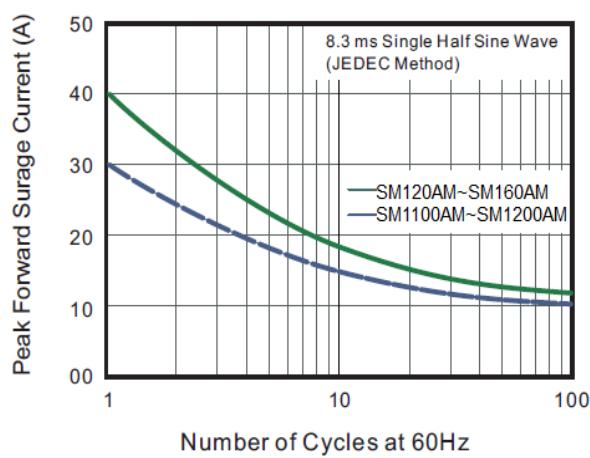


Fig.6-Typical Transient Thermal Impedance

