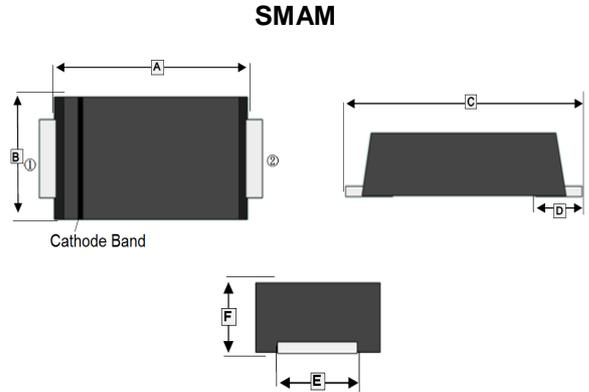


RoHS Compliant Product
 A suffix of "-C" specifies halogen & lead-free

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

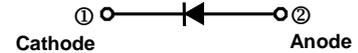
MARKING

S345F

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	3.20	3.70	D	1.00 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



ORDER INFORMATION

Part Number	Type
SK345AM-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}	45	V
Maximum RMS Voltage	V_{RMS}	32	V
Maximum DC Blocking Voltage	V_{DC}	45	V
Maximum Average Forward Rectified Current	I_F	3	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80	A
Maximum Instantaneous Forward Voltage @3A	V_F	0.45	V
Maximum DC Reverse Current @Rated DC Blocking Voltage	I_R	$T_A=25^\circ\text{C}$	0.3
		$T_A=100^\circ\text{C}$	5
Typical Junction Capacitance ¹	C_J	300	pF
Typical Thermal Resistance ²	$R_{\theta JA}$	60	°C/W
Operating Junction & 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 x 2" (5 x 5cm) copper pad areas.

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

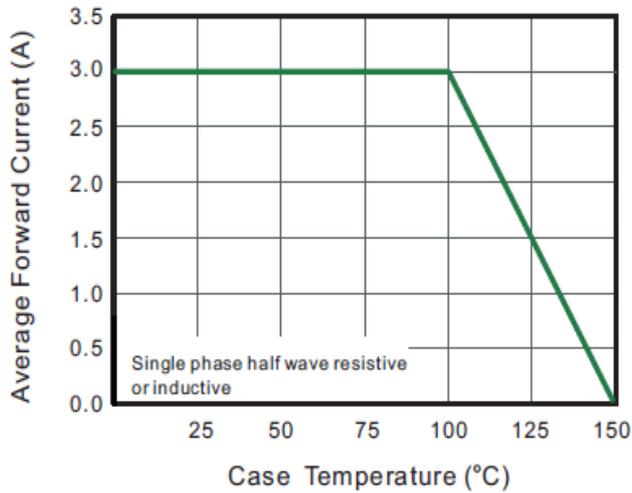


Fig.2 Typical Reverse Characteristics

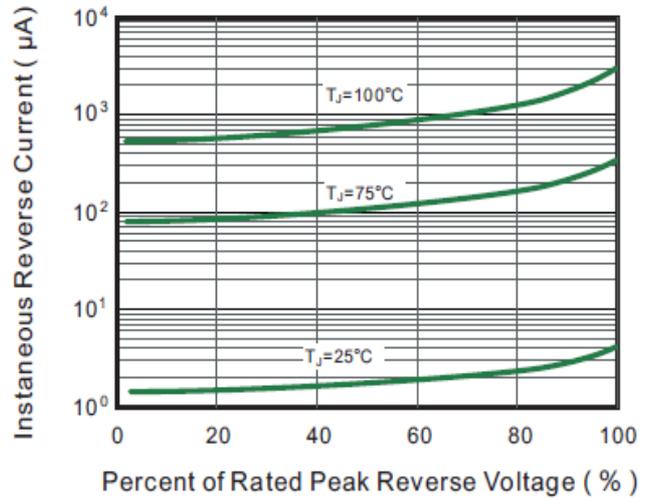


Fig.3 Typical Forward Characteristic

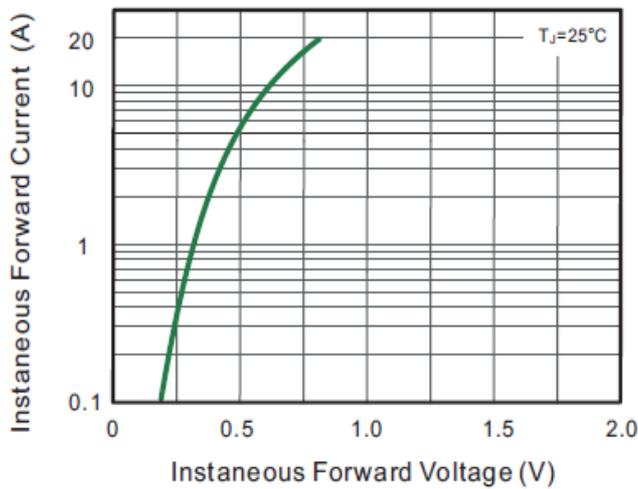


Fig.4 Typical Junction Capacitance

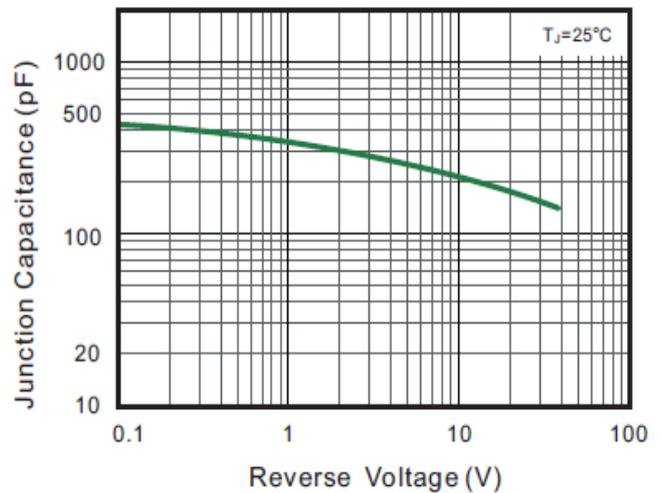


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

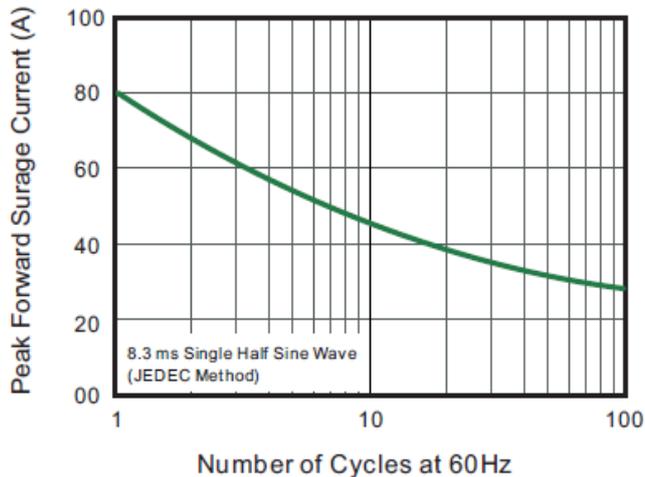
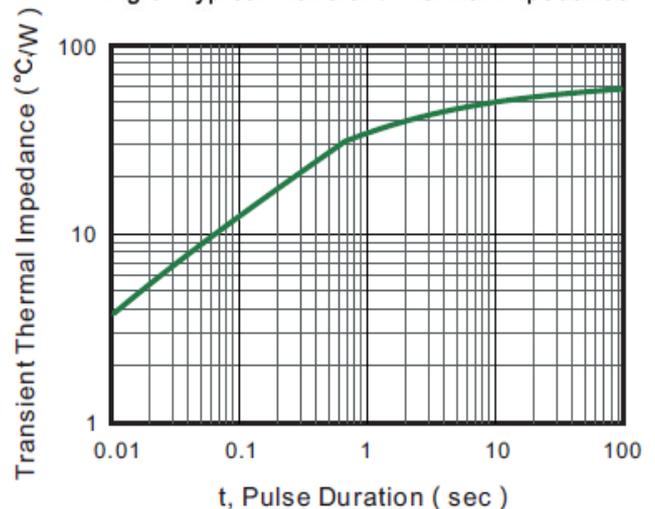
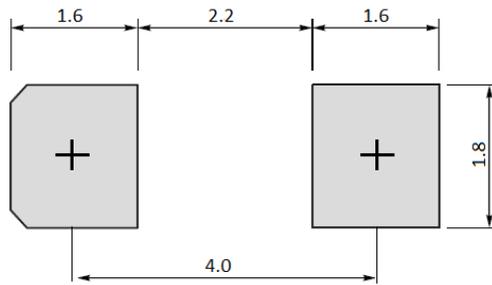


Fig.6- Typical Transient Thermal Impedance



RATINGS AND CHARACTERISTIC CURVES

Fig.7 Mounting Pad Layout



*Dimensions in millimeters