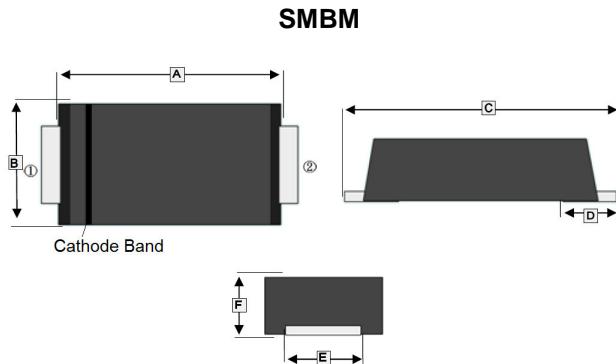


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

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: SMBM
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band

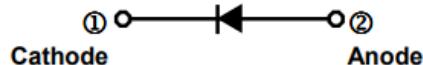
MARKING

SL345B

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.2	4.7	D	1.0	REF
B	3.4	3.8	E	1.8	2.2
C	5.1	5.5	F	1.1	1.45

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMBM	5K	13 inch



ORDER INFORMATION

Part Number	Type
SK345BM-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 @DC Blocking Voltage	I _R	0.5	mA		
		5			
Typical Junction Capacitance ¹	C _J	400		pF	
Typical Thermal Resistance from Junction to Ambient ²	R _{θJA}	50		°C/W	
Typical Thermal Resistance from Junction to Case ²	R _{θJC}	20			
Operating Junction and Storage Temperature Range	T _J , T _{STG}	125, -55~150		°C	

Notes:

1. Measured at 1MHz and applied reverse voltage of 4.0V 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

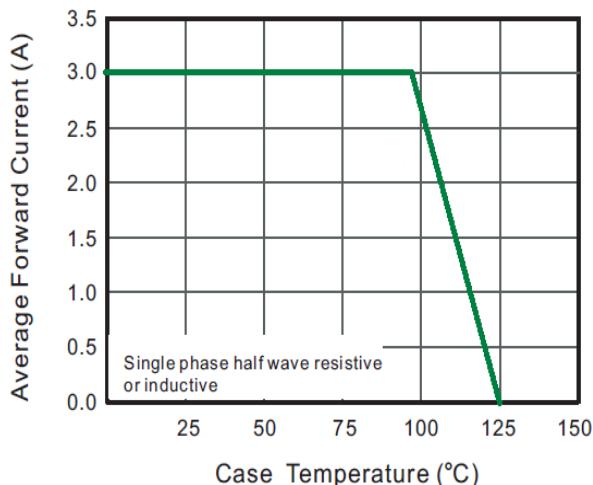


Fig.3 Typical Forward Characteristic

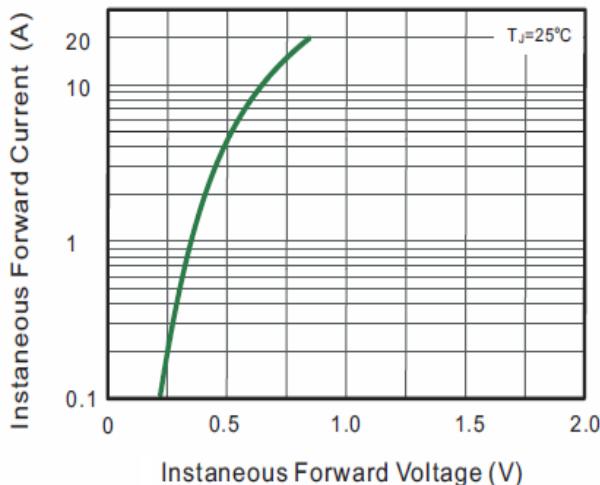


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

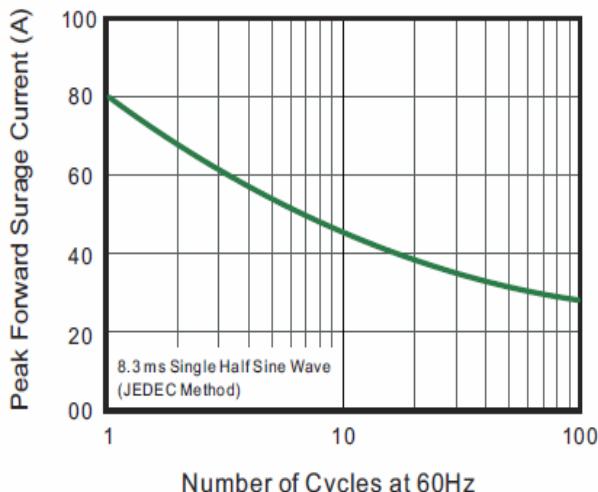


Fig.2 Typical Reverse Characteristics

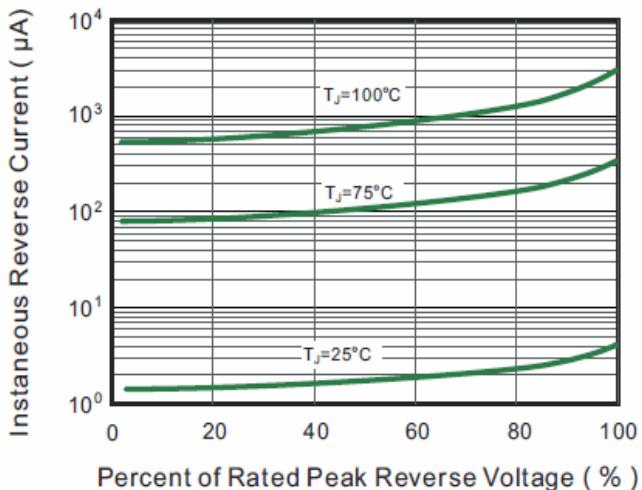


Fig.4 Typical Junction Capacitance

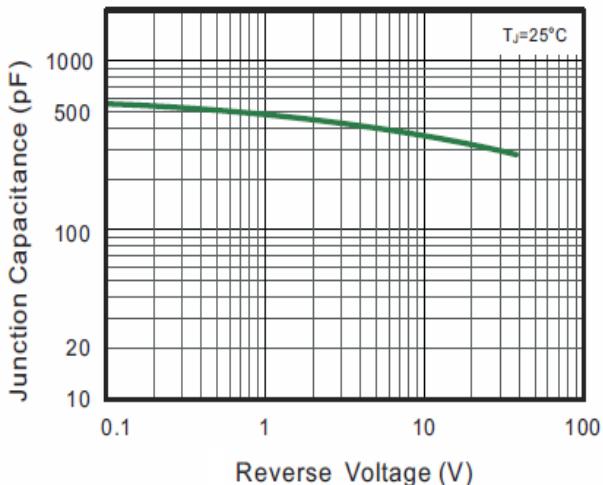


Fig.6-Typical Transient Thermal Impedance

