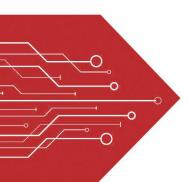
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet







SMC

EATURES

- 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: SMC
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.22g /0.0077oz

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SS1045	SS1060	SS10100	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	60	100	V
Maximum RMS voltage	V _{RMS}	32	42	70	V
Maximum DC Blocking Voltage	V _{DC}	45	60	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	10.0			А
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150		А	
Max Instantaneous Forward Voltage @10.0 A	V _F	0.55	0.75	0.90	V
Maximum DC Reverse Current $T_j = 25$ °C at Rated DC Reverse Voltage $T_j = 100$ °C	I _R	0.5 50		mA	
Typical Thermal Resistance	R _{0JA}	20		°C/W	
Operating Junction Temperature Range	Tj	-55 ~ +150		°C	
Storage Temperature Range	T _{stg}	-55 ~ +150		°C	

⁽¹⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.





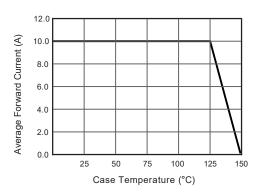


Fig.2 Typical Reverse Characteristics

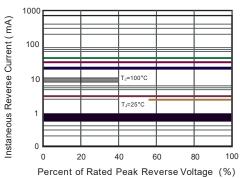


Fig.3 Typical Forward Characteristic

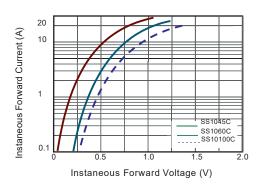


Fig.4- Typical Transient Thermal Impedance

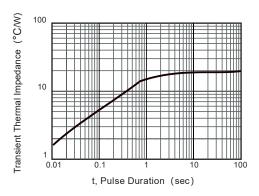
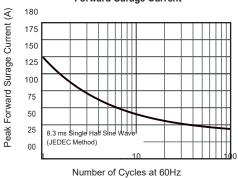


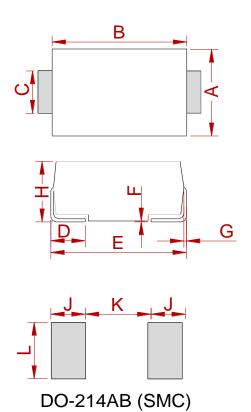
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current







PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
Α	5.75	6.25	0.226	0.246	
В	6.90	7.40	0.272	0.291	
С	2.75	3.25	0.108	0.128	
D	0.95	1.52	0.037	0.060	
E	7.70	8.20	0.303	0.323	
F	0.051	0.203	0.002	0.008	
G	0.15	0.31	0.006	0.012	
Н	2.15	2.62	0.085	0.103	
J	2.40		0.094		
K		4.20		0.165	
L	3.30		0.130		

REEL SPECIFICATION

P/N	PKG	QTY
SS1045 THRU SS10100	SMC	3000





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