

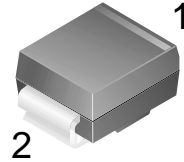
## 10 Ampere Surface Mount Schottky Barrier Rectifier



## SS1045B-SS10100B

## Features:

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- Fast switching for high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters

DO-214AA  
(SMB)

1.Cathode 2. Anode

**Absolute Maximum Ratings\*** (TA=25°C Unless otherwise noted)

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	SS1045B	SS1060B	SS10100B	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			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	150			A
Max Instantaneous Forward Voltage @10.0 A	$V_F$	0.55	0.75	0.90	V
Maximum DC Reverse Current at Rated DC Reverse Voltage $T_j = 25^\circ\text{C}$ $T_j = 100^\circ\text{C}$	$I_R$	0.5 50			mA
Typical Thermal Resistance	$R_{\theta JA}$	20			°C/W
Operating Junction Temperature Range	$T_j$	-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.

Typical Characteristics

Fig.1 Forward Current Derating Curve

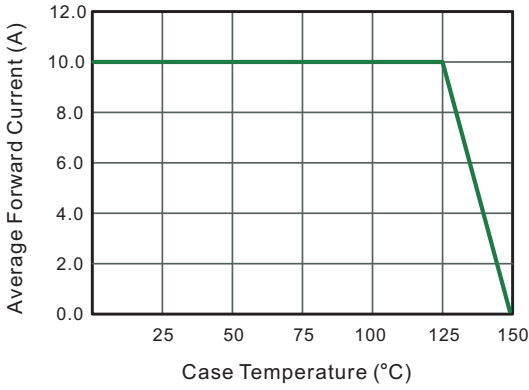


Fig.2 Typical Reverse Characteristics

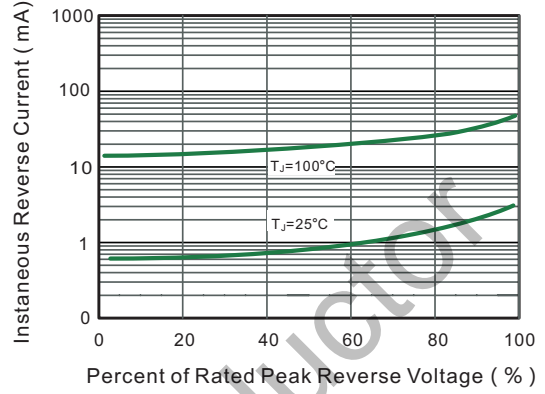


Fig.3 Typical Forward Characteristic

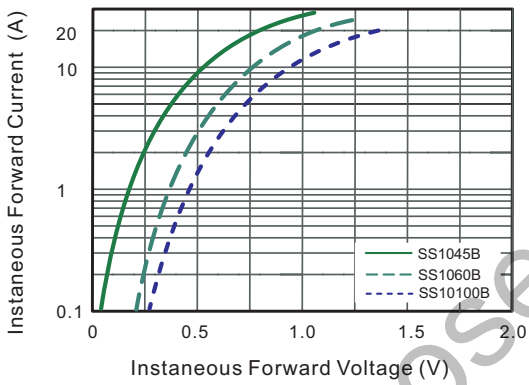


Fig.4- Typical Transient Thermal Impedance

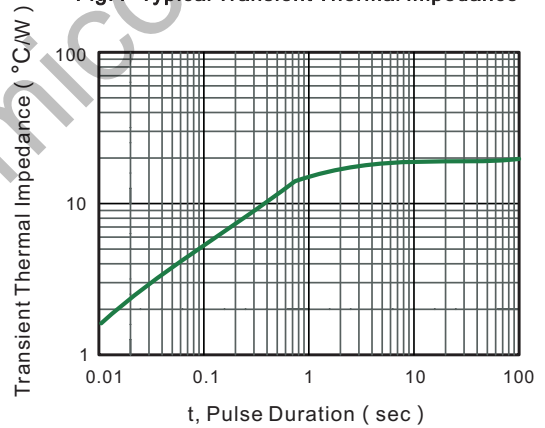
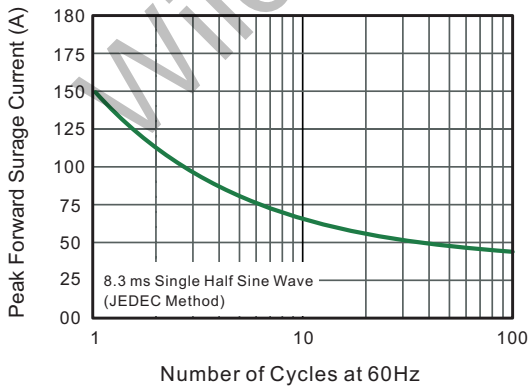
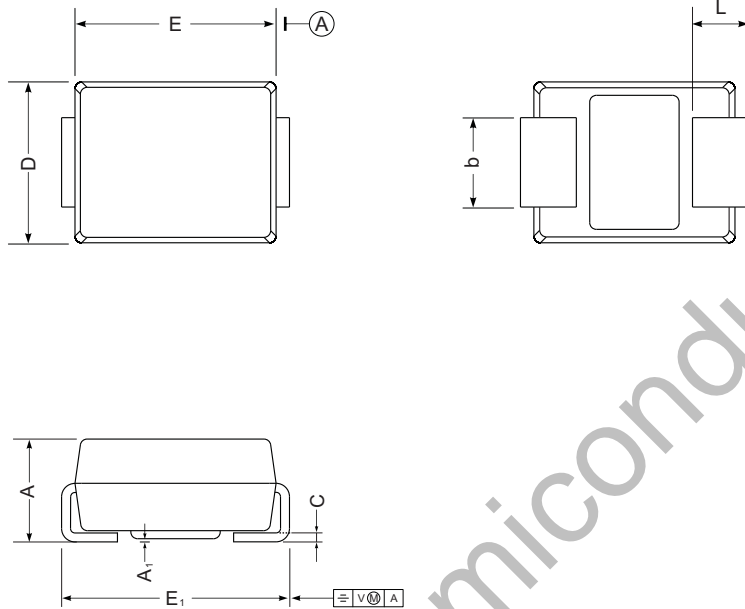


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



**Package Dimension**

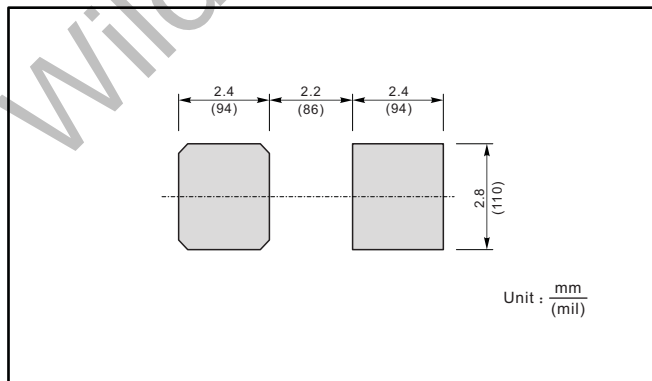
**DO-214AA(SMB)**



SMB mechanical data

UNIT		A	E	D	E <sub>1</sub>	A <sub>1</sub>	L	C	b
mm	max	2.44	4.70	3.94	5.59	0.20	1.5	0.305	2.2
	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152	1.9
mil	max	96	185	155	220	7.9	59	12	87
	min	84	160	130	200	2.0	32	6	75

**The recommended mounting pad size**



**Marking**

Type number	Marking code
SS1045B	SS1045
SS1060B	SS1060
SS10100B	SS10100

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