

Surface Mount Schottky Barrier Rectifier
Reverse Voltage - 20 to 200 V
Forward Current - 2 A
FEATURES

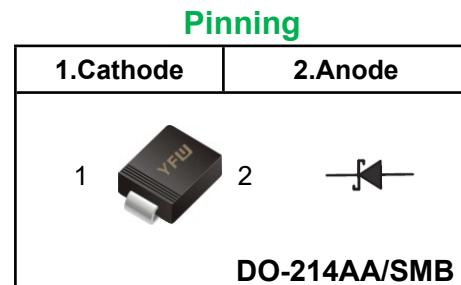
- ◆ Metal silicon junction, majority carrier conduction
- ◆ For surface mounted applications
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- ◆ Case: DO-214AA/SMB
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 0.095g / 0.003oz

Absolute Maximum Ratings and Electrical characteristics

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



Marking Code	
SS22B	SS22
SS24B	SS24
SS26B	SS26
SS28B	SS28
SS210B	SS210
SS212B	SS212
SS215B	SS215
SS220B	SS220

Parameter	Symbols	SS22B	SS24B	SS26B	SS28B	SS210B	SS212B	SS215B	SS220B	Units					
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V					
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V					
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V					
Maximum Average Forward Rectified Current	I_{F(AV)}	2.0								A					
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed On Rated Load (JEDEC method)	I_{FSM}	55				45				A					
Maximum Instantaneous Forward Voltage at 2 A	V_F	0.55		0.70		0.85		0.90		V					
Maximum Instantaneous Reverse Current $T_A = 25^\circ C$ at Rated DC Reverse Voltage $T_A = 100^\circ C$	I_R	0.5 5			0.3 3										
Typical Junction Capacitance ⁽¹⁾	C_j	220			110										
Typical Thermal Resistance ⁽²⁾	R_{θJA}	60								$^\circ C/W$					
Operating Junction Temperature Range	T_j	-55 ~ +150								$^\circ C$					
Storage Temperature Range	T_{stg}	-55 ~ +150								$^\circ C$					

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

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

Fig.1 Forward Current Derating Curve

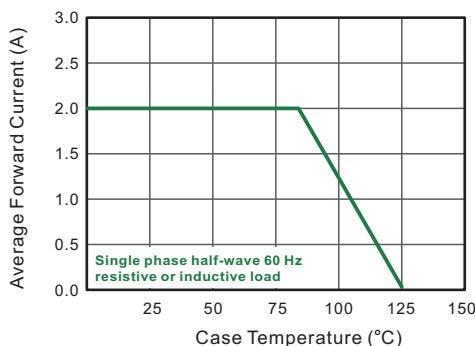


Fig.2 Typical Reverse Characteristics

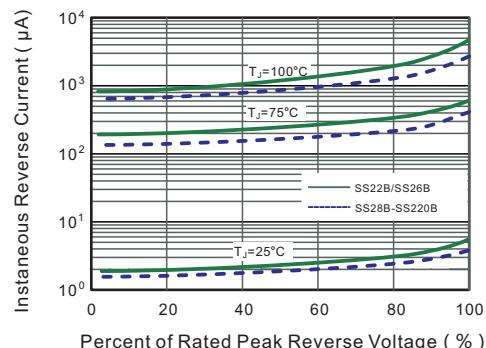


Fig.3 Typical Forward Characteristic

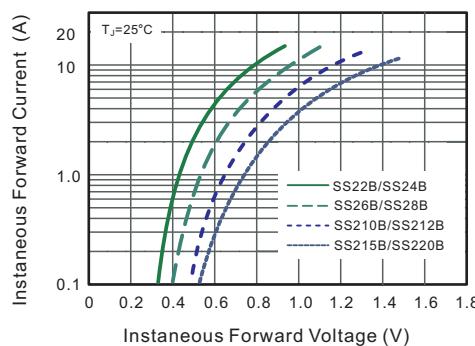


Fig.4 Typical Junction Capacitance

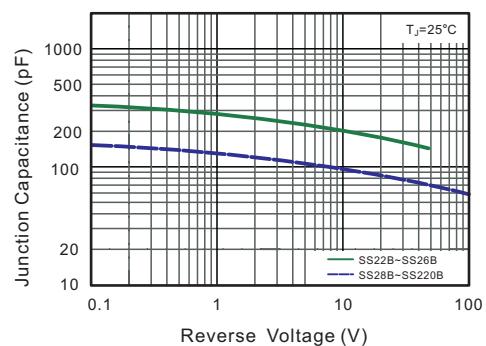


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

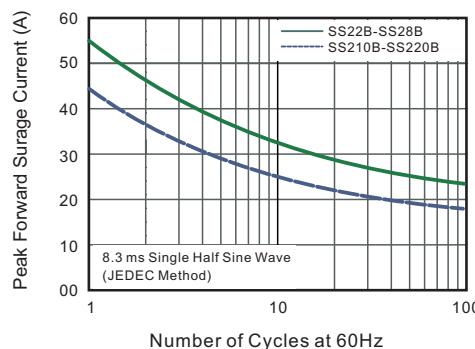
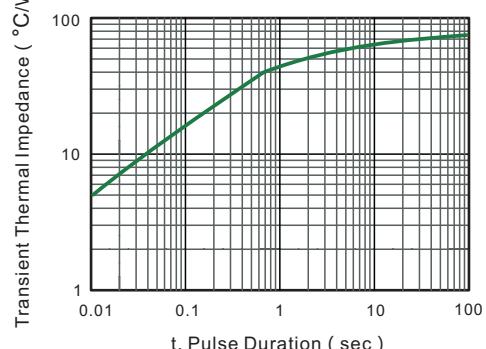
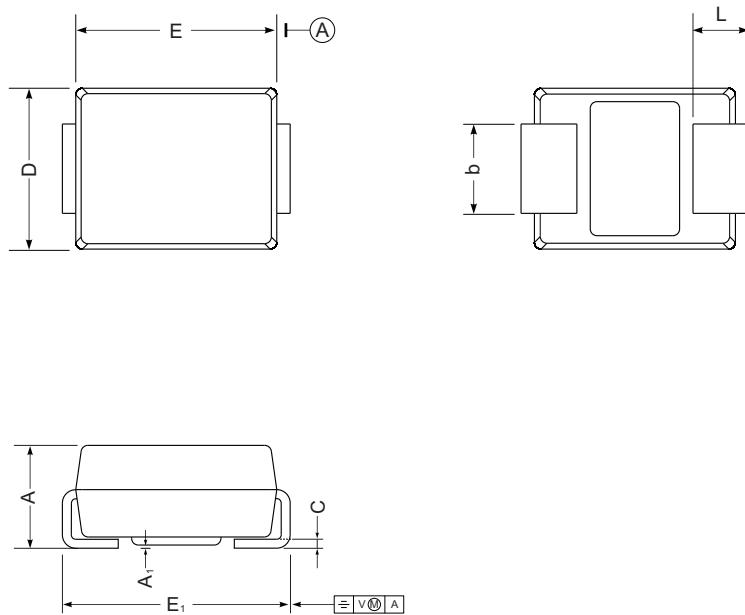


Fig.6- Typical Transient Thermal Impedance

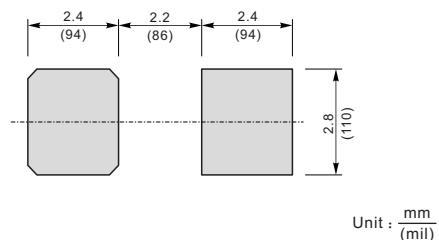


Package Outline
DO-214AA SMB

Plastic surface mounted package; 2leads



UNIT		A	E	D	E_1	A_1	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

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
DO-214AA SMB	Tape/Reel,13"reel	3000	EIA-481-1