

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 45 to 200 V

Forward Current - 10 A

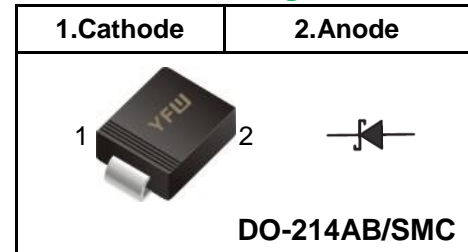
FEATURES

- ◆ 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-214AB/SMC
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 0.22g / 0.0077oz

Pinning



Marking Code

SS1045C	YFW SS1045
SS1060C	YFW SS1060
SS10100C	YFW SS10100
SS10200C	YFW SS10200

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 %

Parameter	Symbols	SS1045C	SS1060C	SS10100C	SS10200C	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	60	100	200	V
Maximum RMS voltage	V_{RMS}	32	42	70	140	V
Maximum DC Blocking Voltage	V_{DC}	45	60	100	200	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}	200				A
Maximum Instantaneous Forward Voltage at 8 A	V_F	0.55	0.75	0.90		v
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage <small>$T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$</small>	I_R	0.5 50				mA
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	20				°C/W
Operating Junction Temperature Range	T_j	-55 ~ +150				°C
Storage Temperature Range	T_{stg}	-55 ~ +150				°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

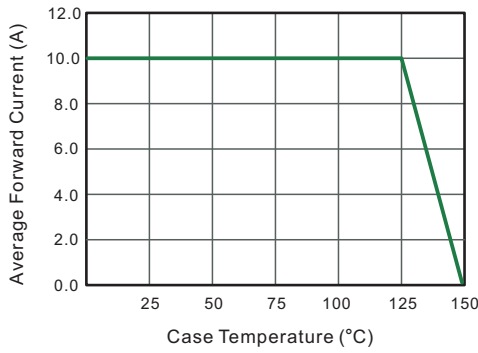


Fig.2 Typical Reverse Characteristics

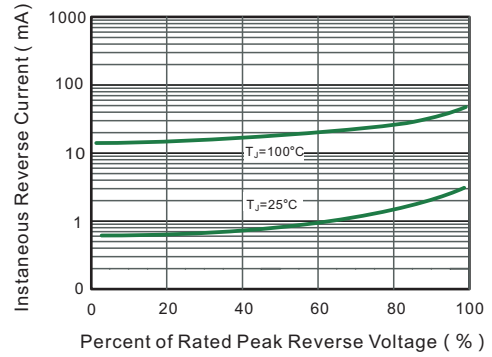


Fig.3 Typical Forward Characteristic

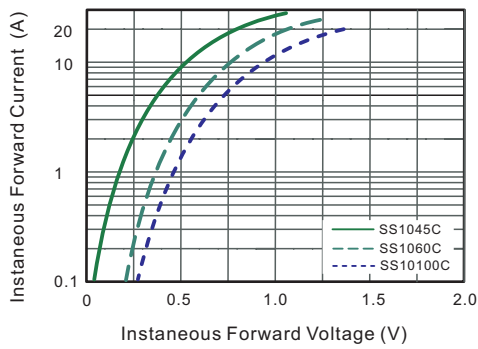


Fig.4 Typical Transient Thermal Impedance

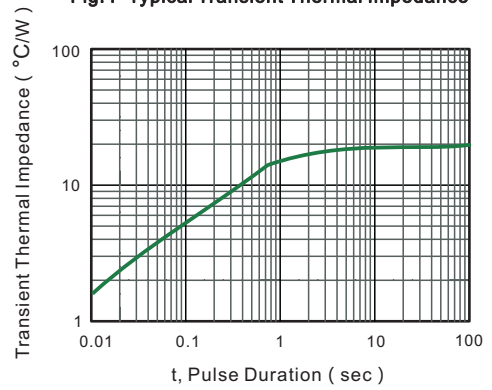
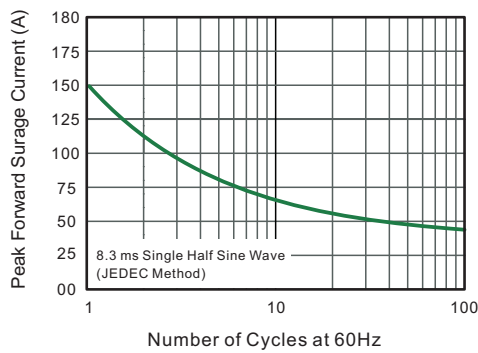


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Marking Diagram



Ordering information

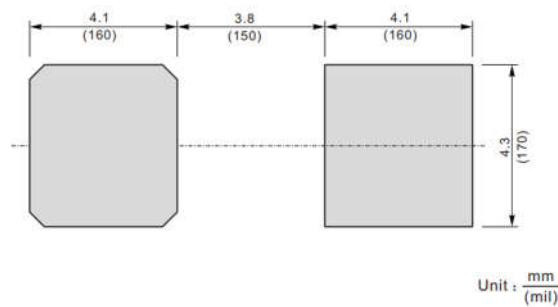
Package	Packing Description	Packing Quantity
DO-214AB SMC	Tape/Reel, 13" reel	3000PCS/Reel 30000PCS/Carton

Package Dimensions

DO-214AB SMC

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	2.00	2.62	79	103
E	6.5	7.0	256	276
D	5.6	6.2	220	244
E ₁	7.6	8.0	299	315
A ₁	0.05	0.21	2.0	8.3
C	0.15	0.31	5.9	12
L	0.9	1.6	35	63
b	2.75	3.25	108	128

The recommended mounting pad size



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