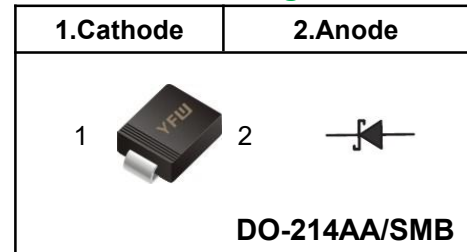


Standard Rectifier
Reverse Voltage - 1200V
Forward Current - 2.0 A
FEATURES

- ◆ For surface mounted applications
- ◆ Ideal for automated placement
- ◆ High forward surge current capability
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ High temperature soldering guaranteed 260°C/10 seconds at terminals

APPLICATION

For use in general purpose rectification of power suppliers, inverters, converters, and freewheeling diodes for consumer and telecommunication.

Pinning

Marking Code

S2QB	YFW S2Q
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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 current derate by 20%.

Parameter	Symbols	S2QB	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1200	V
Maximum RMS voltage	V_{RMS}	840	V
Maximum DC Blocking Voltage	V_{DC}	1200	V
Maximum average forward rectified current at T _L =120°C	I_(AV)	2.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50	A
Maximum instantaneous forward voltage at 2.0A	V_F	1.0	V
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage T _A = 25°C T _A = 125°C	I_R	2 100	uA
Maximum reverse recovery time I _F =0.5A I _R =1.0A I _{rr} =0.25A	T_{rr}	2400	ns
Typical junction capacitance (Note1)	C_j	11	pF
Typical Thermal Resistance	R_{θJA} R_{θJC}	65 18	°C/W
Operating Junction Temperature Range	T_j	-55 ~ +150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

Note:

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

2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

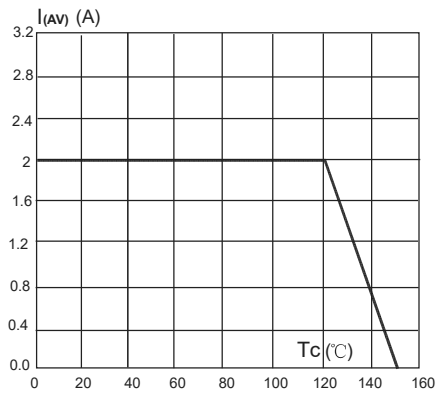


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

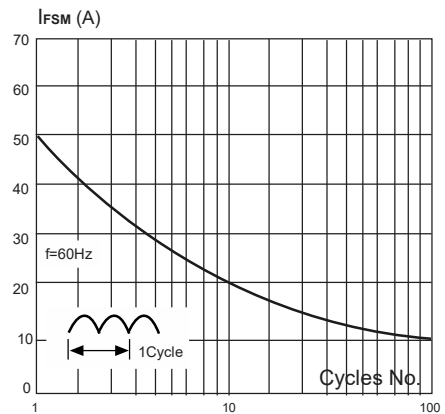


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

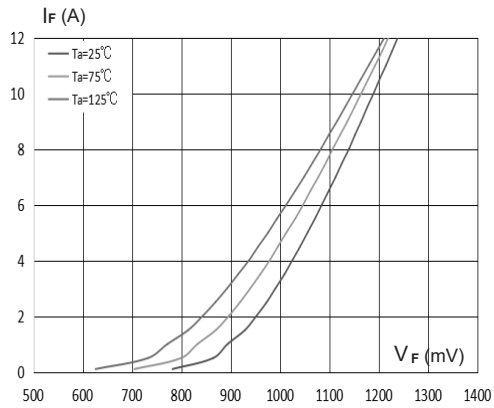
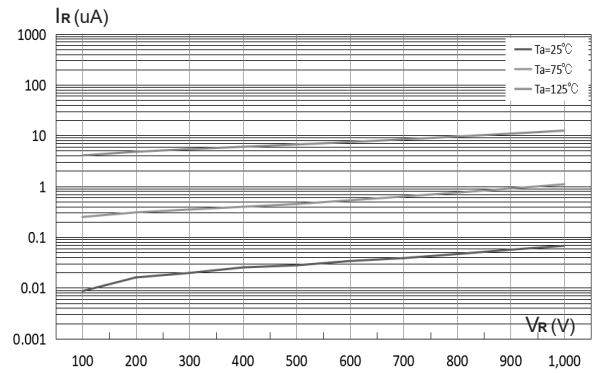
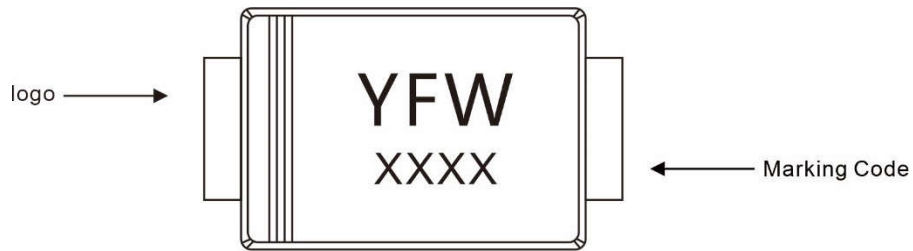


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

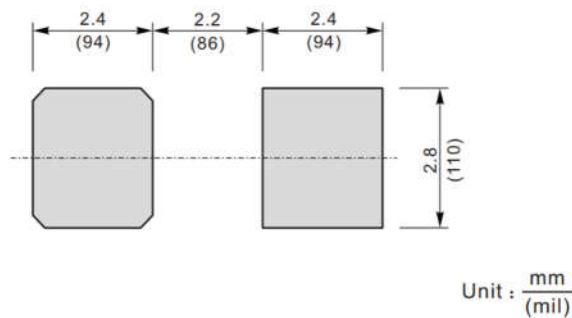
Package	Packing Description	Packing Quantity
DO-214AA SMB	Tape/Reel, 13" reel	3000PCS/Reel 30000PCS/Carton

Package Dimensions

DO-214AA SMB

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	2.13	2.44	84	96
E	4.06	4.70	160	185
D	3.3	3.94	130	155
E ₁	5.08	5.59	200	220
A ₁	0.05	0.20	2.0	7.9
L	0.8	1.5	32	59
C	0.152	0.305	6	12
b	1.9	2.2	75	87

The recommended mounting pad size



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