

Standard Surface Mounted Rectifiers

Reverse Voltage - 1300 to 2000 V

Forward Current - 2 A

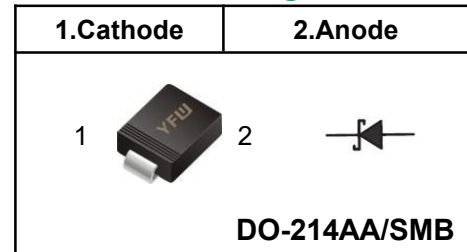
FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Idea for printed circuit board
- ◆ Glass passivated junction chip
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed
260°C/10 seconds at terminals

MECHANICAL DATA

- ◆ Case : Molded plastic body
- ◆ Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ Polarity : Polarity symbol marking on body
- ◆ Mounting Position : Any
- ◆ Weight : 0.0035 ounce, 0.098 grams

Pinning



Marking Code

S2TB	YFW S2T
S2WB	YFW S2W
S2XB	YFW S2X
S2YB	YFW S2Y

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	S2TB	S2WB	S2XB	S2YB	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1300	1600	1800	2000	V
Maximum RMS voltage	V_{RMS}	910	1120	1260	1400	V
Maximum DC Blocking Voltage	V_{DC}	1300	1600	1800	2000	V
Maximum average forward rectified current at T _L =100°C	I<sub(av)< sub=""></sub(av)<>	2.0				A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30				A
Maximum instantaneous forward voltage at 2.0A	V_F	1.1				V
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage T _A = 25°C T _A = 125°C	I_R	2.0 200				uA
Typical junction capacitance (Note1)	C_j	48.0				pF
Typical Thermal Resistance	R_{θJA}	60				°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.

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

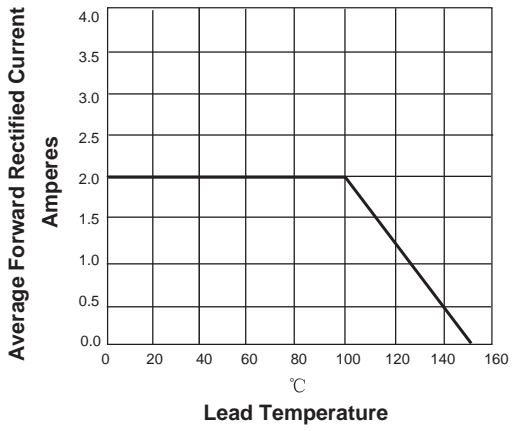


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

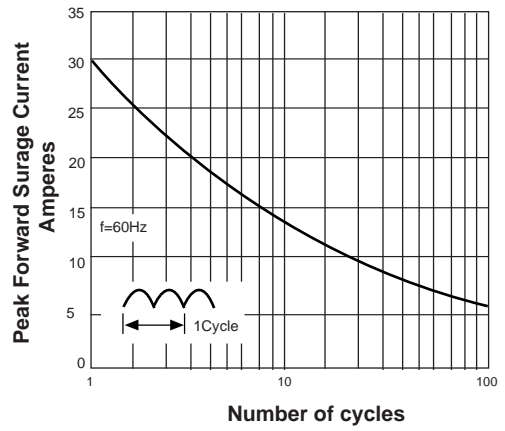


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

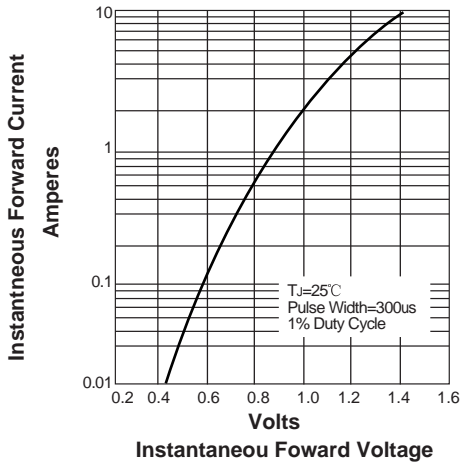
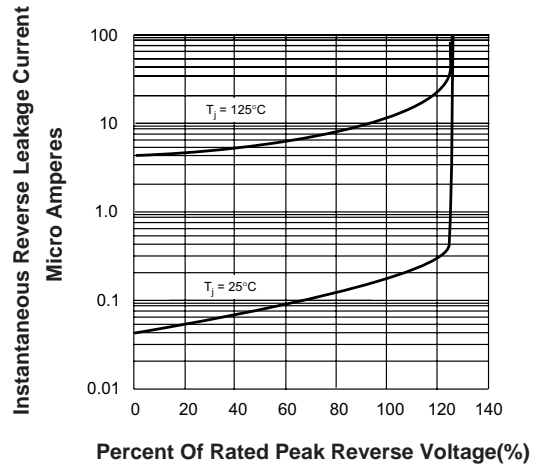
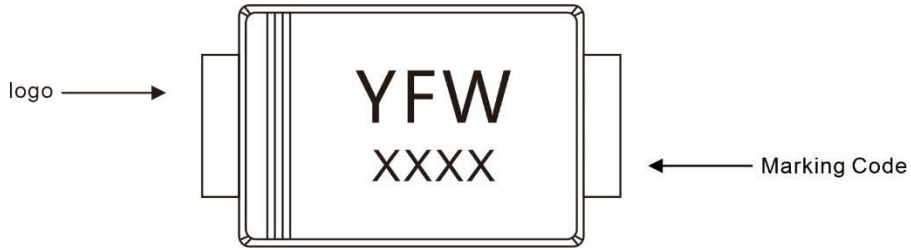


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

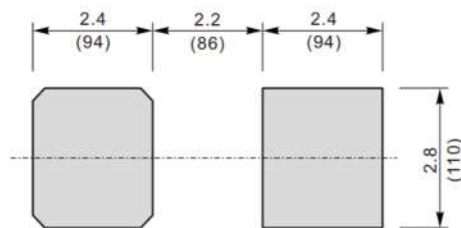
Package	Packing Description	Packing Quantity
DO-214AA SMB	Tape/Reel, 13" reel	3000PCS/Reel 30000PCS/Carton

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



Unit : $\frac{\text{mm}}{\text{mil}}$

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