

Standard Surface Mounted Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 15 A

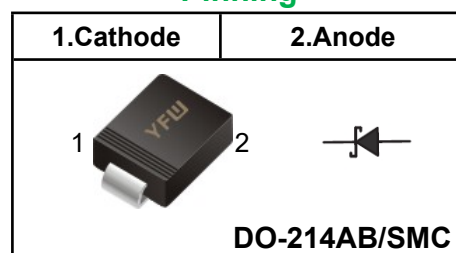
FEATURES

- ◆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 : DO-214AB/SMC
- ◆Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
- ◆Polarity : Polarity symbol marking on body
- ◆Mounting Position : Any
- ◆Weight : 0.008 ounce, 0.225 grams

Pinning



Marking Code

S15AC	YFW S15A
S15BC	YFW S15B
S15DC	YFW S15D
S15GC	YFW S15G
S15JC	YFW S15J
S15KC	YFW S15K
S15MC	YFW S15M

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	S15AC	S15BC	S15DC	S15GC	S15JC	S15KC	S15MC	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_L=100^{\circ}C$	$I_{(AV)}$	15							A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load	I_{FSM}	350							A
Maximum Instantaneous Forward Voltage at 15.0 A	V_F	1.10							V
Maximum DC reverse current at rated DC blocking voltage $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	I_R	5.0 500							uA
Typical junction capacitance (Note1)	C_J	98.0							pF
Typical Thermal Resistance	$R_{\theta JA}$	47							°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

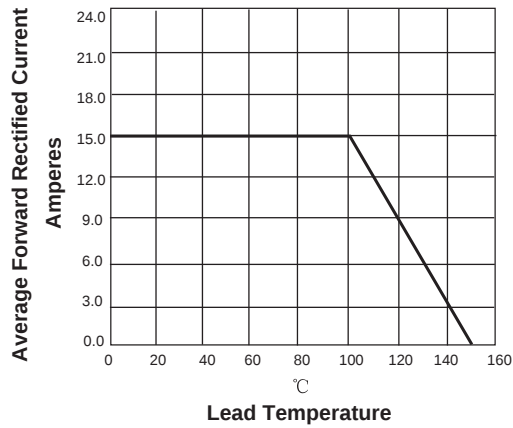


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

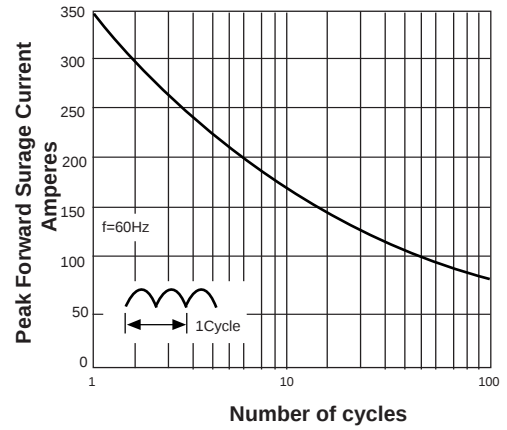


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

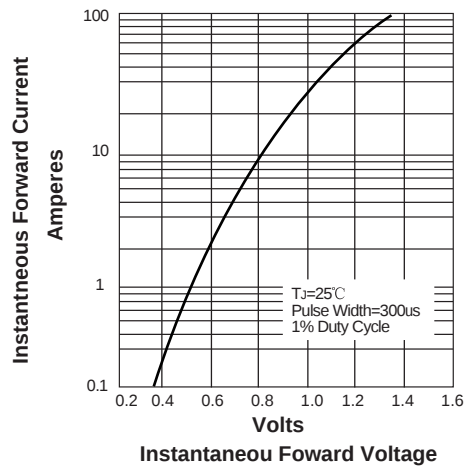
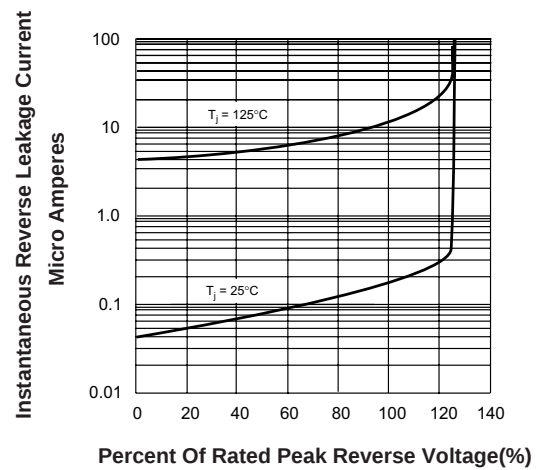
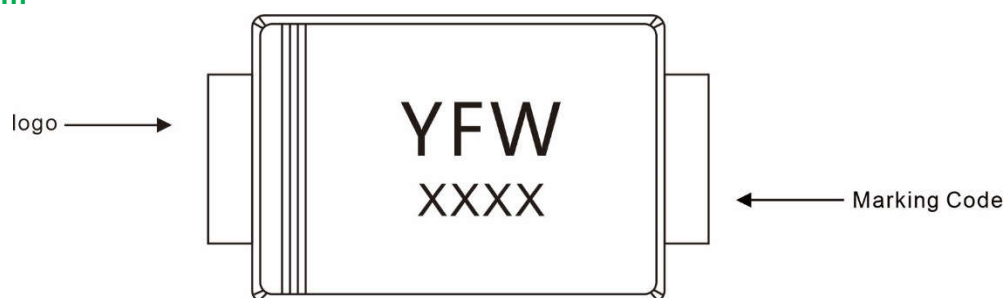


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

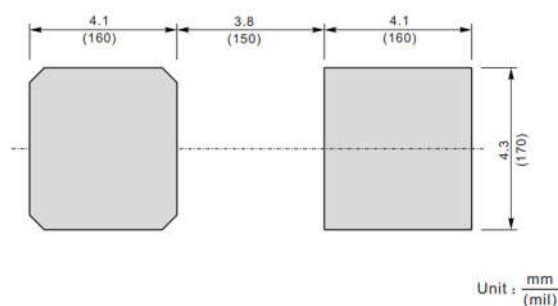
Package	Packing Description	Packing Quantity
DO-214AB SMC	Tape/Reel, 13" reel	3000PCS/Reel 30000PCS/Cartron

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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