

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40 to 200 V

Forward Current - 15 A

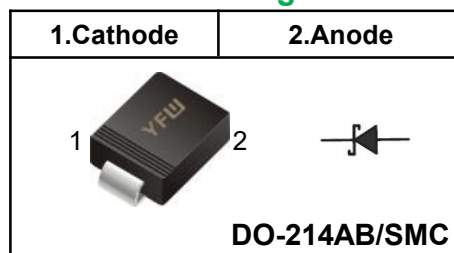
FEATURES

- ◆The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆For surface mounted applications
- ◆Built-in strain relief,ideal for automated placement
- ◆Low reverse leakage
- ◆High forward surge current capability
- ◆High temperature soldering guaranteed
250 °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
- ◆Approx. Weight: 0.22g / 0.0077oz

Pinning



Marking Code

SS154C	YFW SS154
SS1545C	YFW SS1545
SS156C	YFW SS156
SS158C	YFW SS158
SS1510C	YFW SS1510
SS1515C	YFW SS1515
SS1520C	YFW SS1520

Absolute 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, derate by 20 %

Parameter	SYMBOLS	SS154C	SS1545C	SS156C	SS158C	SS1510C	SS1515C	SS1520C	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	45	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	31.5	42	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	40	45	60	80	100	150	200	V
Maximum average forward rectified current at T _L =100°C	I_{F(AV)}	15.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	200.0							A
Maximum instantaneous forward voltage at 15.0A	V_F	0.55		0.70	0.85		0.95		V
Maximum DC reverse current at rated DC blocking voltage	I_R	0.5 50			0.05 10				mA
Typical thermal resistance	R_{θJA}	47.0							°C/W
Operating junction temperature range	T_j	-55 to +150							°C
Storage temperature range	T_{stg}	-55 to +150							°C

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

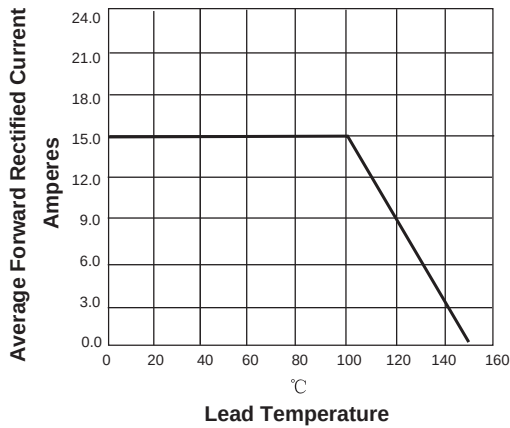


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

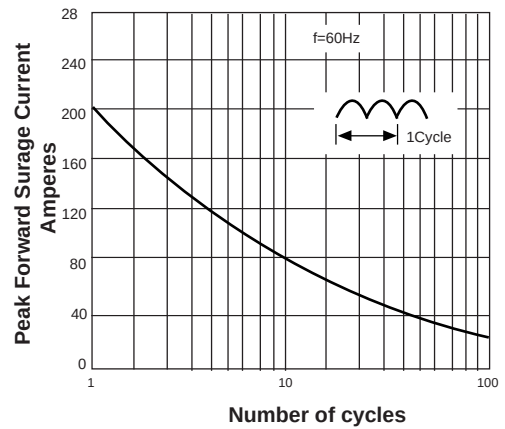


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

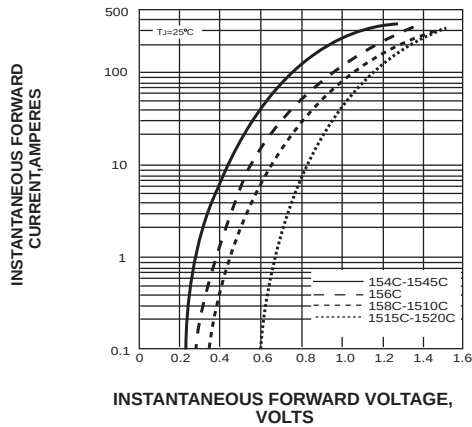
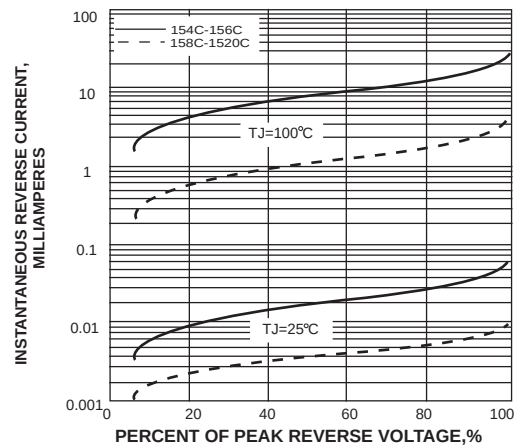
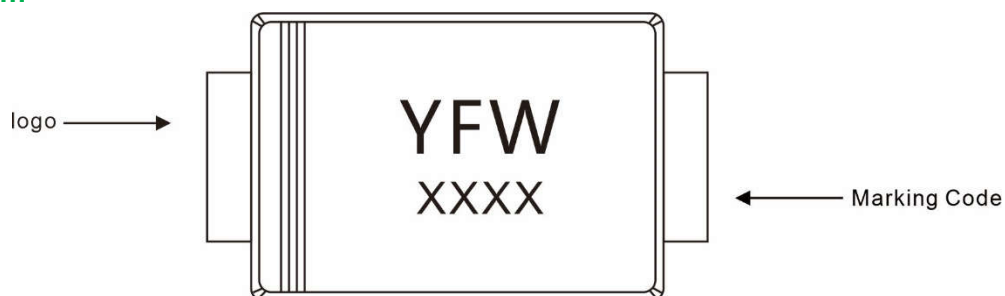


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

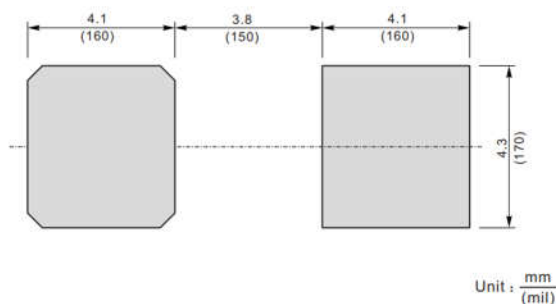
Package	Packing Description	Packing Quantity
DO-214AB SMC	Tape/Reel, 13" reel	3000PCS/Reel 30000PCS/Cartron

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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