

■ Switching Diodes

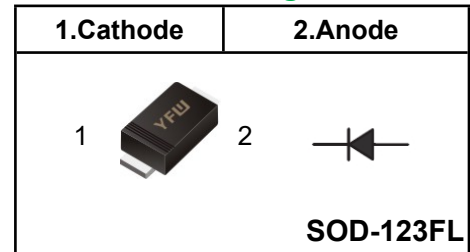
FEATURES

- ◆ For surface mounted applications
- ◆ Glass Passivated Chip Junction
- ◆ Fast reverse recovery time
- ◆ Ideal for automated placement
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- ◆ Case: SOD-123FL
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 15mg /0.00053oz

Pinning



Marking Code

BAV100WL	YFW B100
BAV101WL	YFW B101
BAV102WL	YFW B102
BAV103WL	YFW B103

Absolute Maximum Ratings at 25 °C

Parameter	Symbols	BAV100WL	BAV101WL	BAV102WL	BAV103WL	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	120	200	250	V
Maximum RMS voltage	V_{RMS}	50	100	150	200	V
Continuous Forward Current	I_F	250				mA
Repetitive Peak Forward Current	I_{FRM}	625				mA
Non-reptitive Peak Forward Surge Current	at 1s	1				A
	at 1ms	3				
	at 1us	9				
Total Power Dissipation	P_{tot}	500				mW
Typical Thermal Resistance (1)	$R_{\theta JA}$	450				°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150				°C

(1) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Characteristics at Ta = 25 °C

Parameter	Symbols	BAV100WL	BAV101WL	BAV102WL	BAV103WL	Units
Reverse Breakdown Voltage at $I_R=100\mu A$	$V_{(BR)R}$	60	120	200	250	V
Maximum Forward Voltage	at 100 mA	1.00				V
	at 200 mA	1.25				
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_a=25^\circ C$	0.1				uA
	$T_a=100^\circ C$	15				
Typical Junction Capacitance at $V_R=4V, f=1MHz$	C_j	5				pF
Maximum Reverse Recovery Time	T_{rr}	50				nS

Fig.1 Forward Current Derating Curve

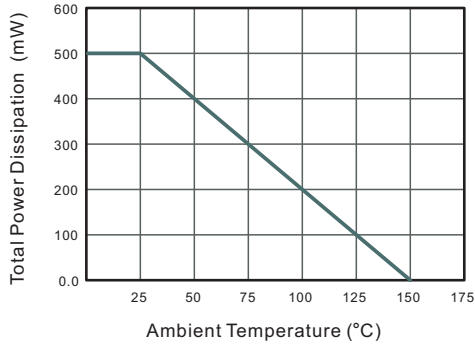


Fig.2 Typical Reverse Characteristics

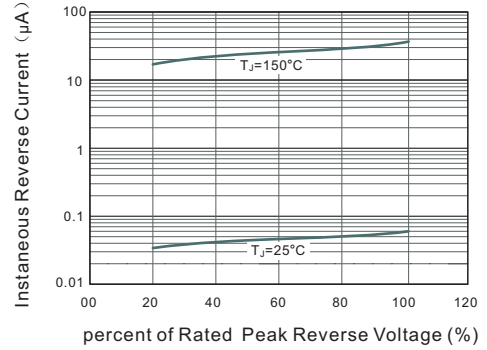


Fig.3 Typical Instantaneous Forward Characteristics

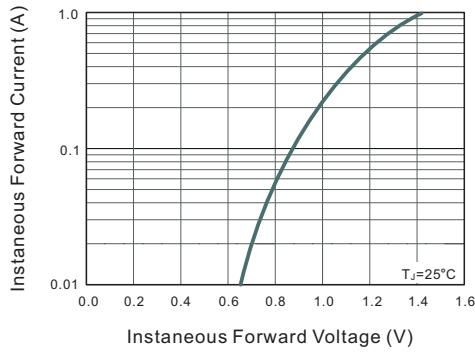
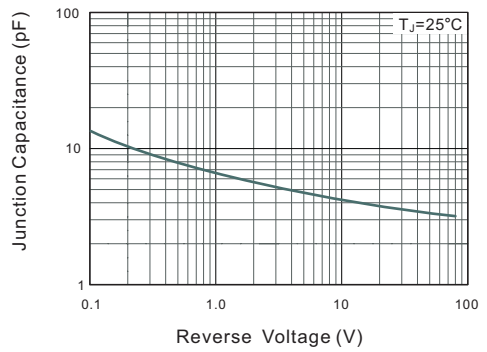
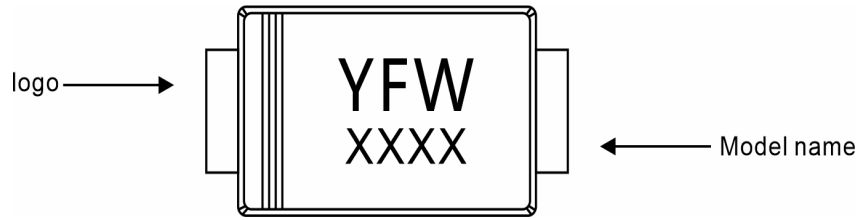


Fig.4 Typical Junction Capacitance



Marking Diagram



Ordering information

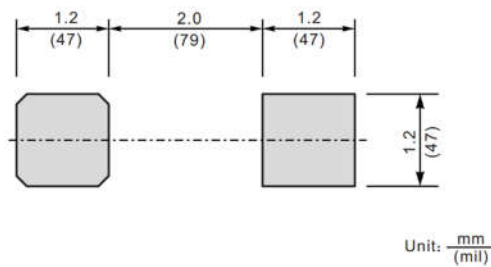
Package	Packing Description	Packing Quantity
SOD-123FL	Tape/Reel, 13" reel	10000PCS/Reel 100000PCS/Carton
	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-123FL

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.3	35	43
C	0.12	0.20	4.7	7.9
D	2.6	2.9	102	114
E	1.7	1.9	67	75
e	0.8	1.1	31	43
g	0.7	0.9	28	35
HE	3.5	3.8	138	150
∠	7°			

The recommended mounting pad size



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