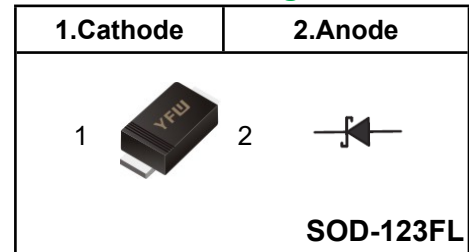


Schottky Diodes

Pinning



FEATURES

- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0

Absolute Maximum Ratings Ta = 25°C

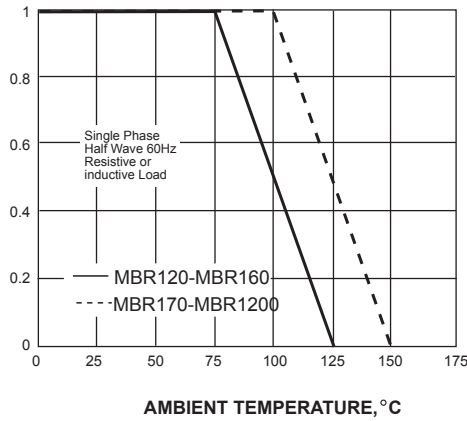
Parameter	Symbol	MBR 120	MBR 130	MBR 140	MBR 150	MBR 160	MBR 170	MBR 180	MBR 190	MBR 1100	MBR 1200	Unit	
Repetitive Peak Reverse Voltage	VRRM	20	30	40	50	60	70	80	90	100	200	V	
Maximum RMS Voltage	VRMS	14	21	28	35	42	49	56	63	70	140		
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	70	80	90	100	200		
Forward Voltage @ If=1A	VF	0.55			0.7		0.85			0.95		A	
Averaged Forward Current.Ta=75°C	IFAV	1											
Peak Forward Surge Current Ta=25 °C	IFSM	25											
Maximum DC Reverse Current	Ta=25 °C	1										mA	
	Ta=100 °C												10
Typical Junction Capacitance (Note.1)	Cj	110				80						pF	
Junction Temperature	TJ	-65 to 125					-65 to 150						°C
Storage Temperature	TSTG	-65 to 150											

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

Typical Characteristics

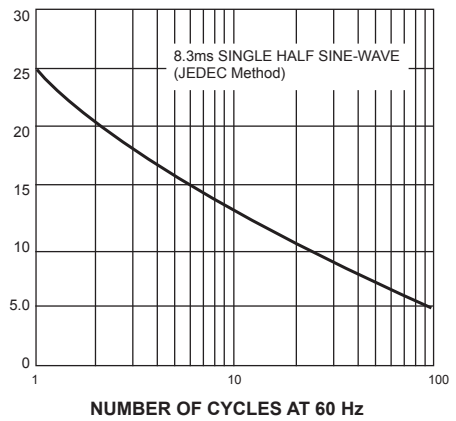
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



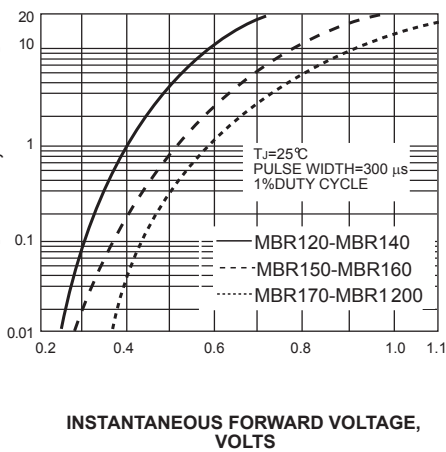
PEAK FORWARD SURGE CURRENT, AMPERES

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



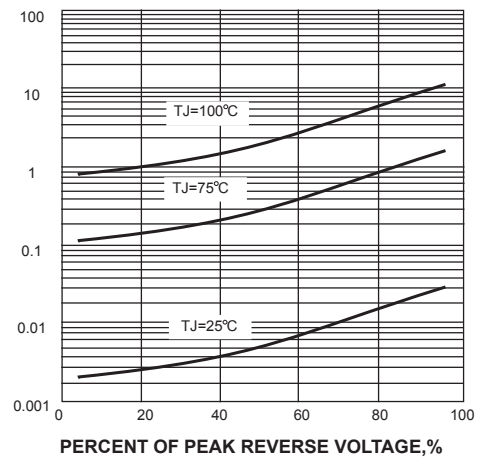
INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



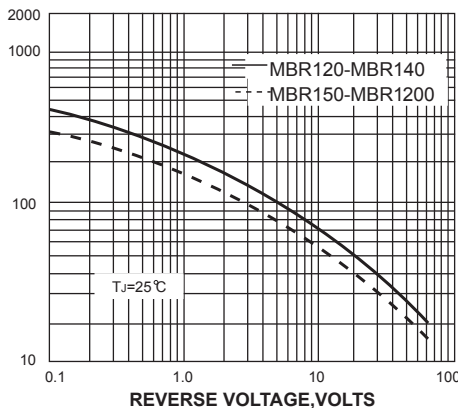
INSTANTANEOUS REVERSE CURRENT, MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

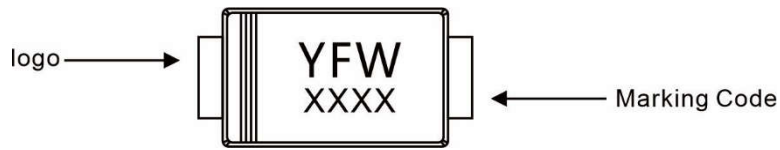


JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



Marking Diagram



Ordering information

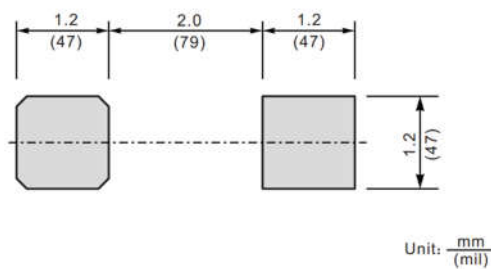
Package	Packing Description	Packing Quantity
SOD-123FL	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

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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