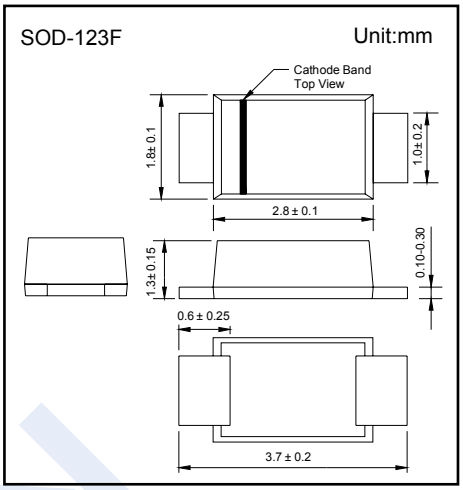
Schottky Diodes

MBR120F ~ MBR1200F



■ 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℃

Parameter	Symbol	MBR 120F	MBR 130F	MBR 140F	MBR 150F	MBR 160F	MBR 170F	MBR 180F	MBR 190F	MBR 1100F	MBR 1200F	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	140	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	70	80	90	100	200	
Forward Voltage @ I_F=1A	V_F	0.55			0.7		0.85				0.95	
Averaged Forward Current.Ta=75℃	I_{FAV}	1										A
Peak Forward Surge Current Ta=25℃	I_{FSM}	25										
Maximum DC Reverse Current Ta=25℃	I_R	1										mA
Ta=100℃		10										
Typical Junction Capacitance (Note.1)	Cj	110			80							pF
Junction Temperature	Tj	-65 to 125					-65 to 150					℃
Storage Temperature	Tstg	-65 to 150										

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

■ Marking

NO.	MBR120F	MBR130F	MBR140F	MBR150F	MBR160F	MBR170F	MBR180F	MBR190F	MBR1100F	MBR1200F
Marking	D12	D13	D14	D15	D16	D17	D18	D19	D110	D120

Schottky Diodes

MBR120F ~ MBR1200F

■ Typical Characterisitics

FIG. 1- FORWARD CURRENT DERATING CURVE

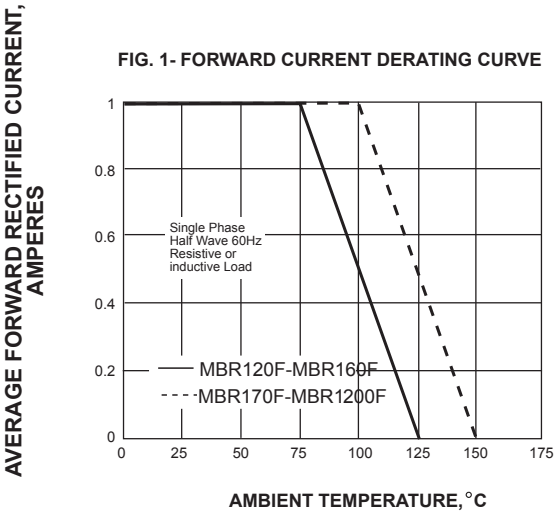


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

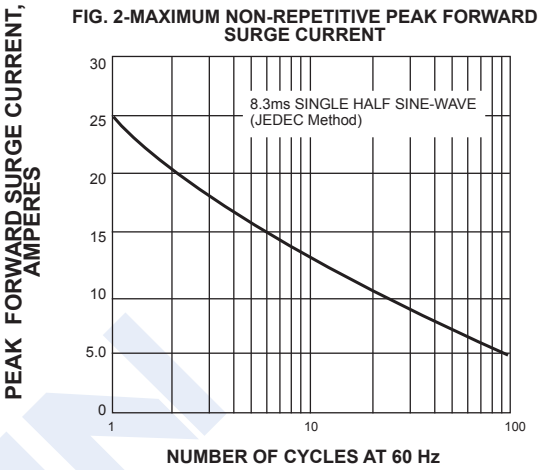


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

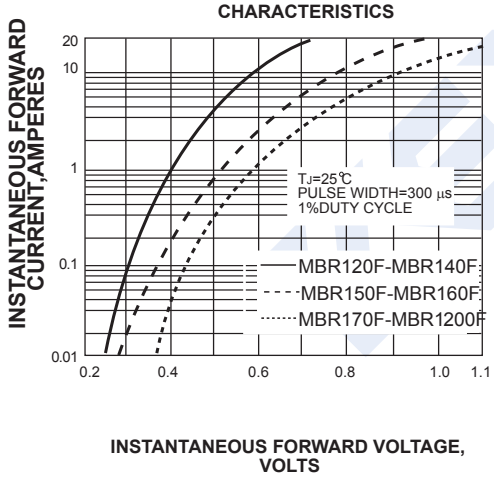


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

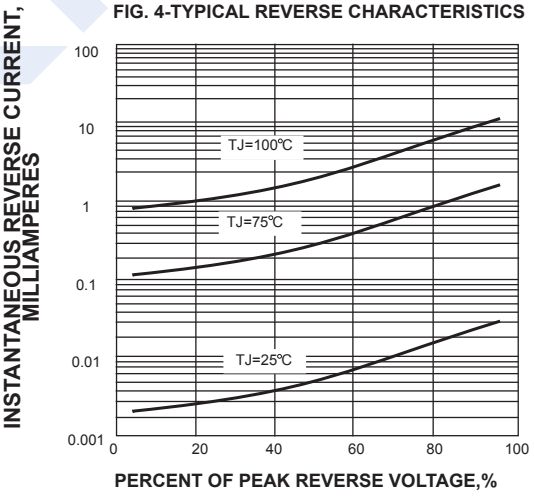


FIG. 5-TYPICAL JUNCTION CAPACITANCE