

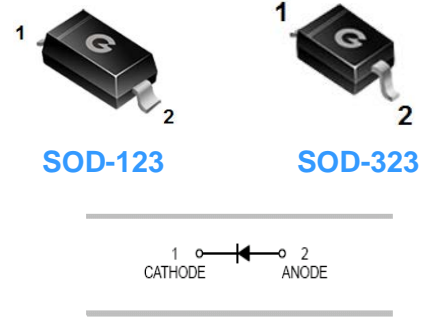
Features

- Low power loss, high efficiency

HF

Mechanical Data

- Case: SOD-123, SOD-323
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Tin-plated; solderability per MIL-STD-202, Method 208



Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
MBR1100	SOD-123	3000pcs / Tape & Reel	110
MBR1100S	SOD-323	3000pcs / Tape & Reel	110

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
RMS Reverse Voltage	V _{RMS}	70	V
Maximum Average Forward Output Current	I _{F(AV)}	1	A
Peak Forward Surge Current (8.3ms single half sine-wave)	I _{FSM}	25	A

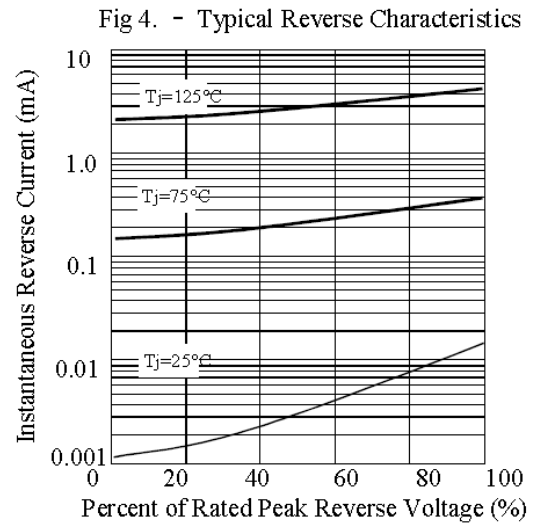
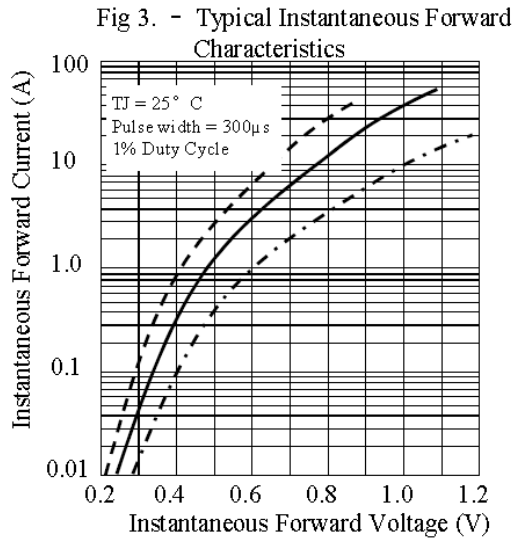
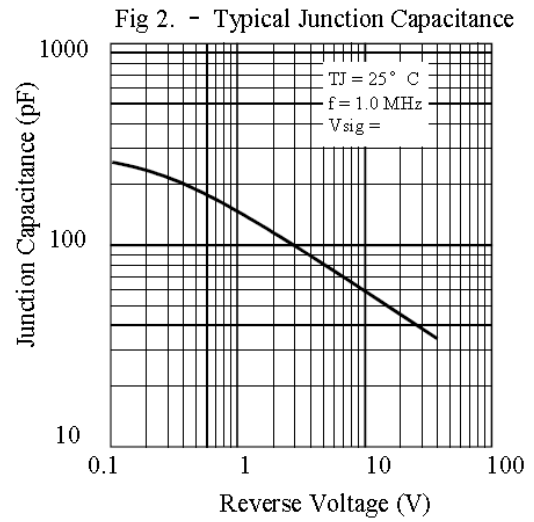
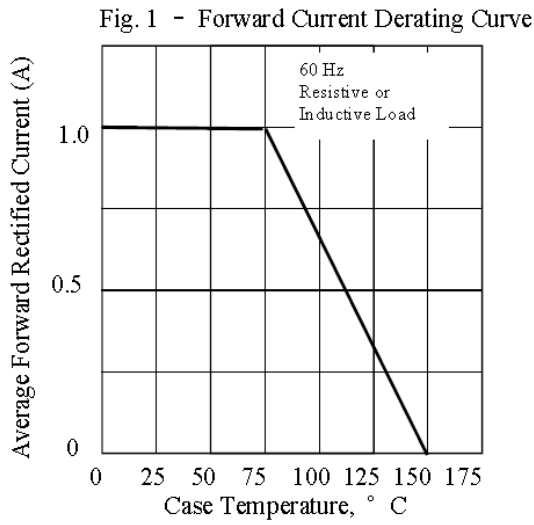
Thermal Characteristics

Parameter	Symbol	MBR1100	MBR1100S	Unit
Power Dissipation	P _D	500	250	mW
Operating junction Temperature	T _J	150		°C
Storage Temperature Range	T _{STG}	-55 ~ +150		°C

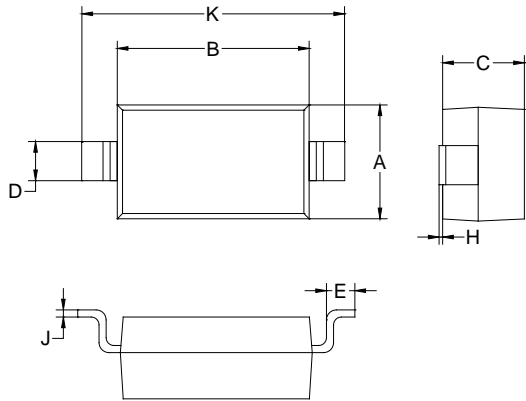
Electrical Characteristics (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V _F	I _F = 1A	-	-	0.85	V
Maximum Peak Reverse Current	I _R	V _R = 100V, T _A = 25°C	-	-	20	μA
		V _R = 100V, T _J = 125°C	-	-	10	mA
Typical Junction Capacitance	C _J	V _R = 4V, f = 1MHZ	-	-	160	pF

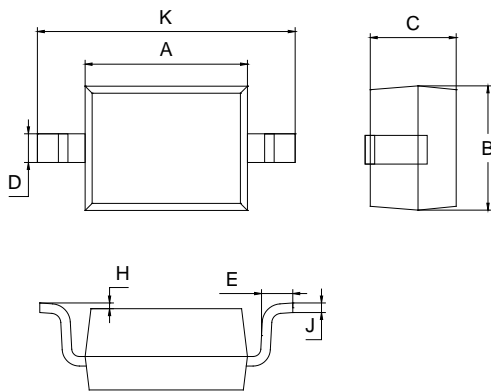
Ratings and Characteristic Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)



Package Outline Dimensions (Unit: mm)



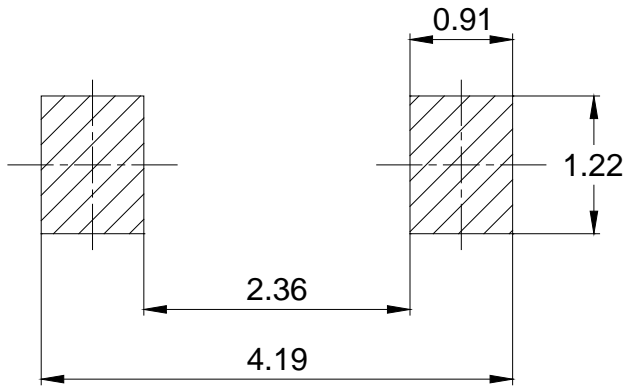
SOD-123		
Dimension	Min.	Max.
A	1.45	1.75
B	2.55	2.85
C	1.00	1.30
D	0.50	0.60
E	0.25	0.45
H	0.02	0.10
J	0.05	0.15
K	3.55	3.85



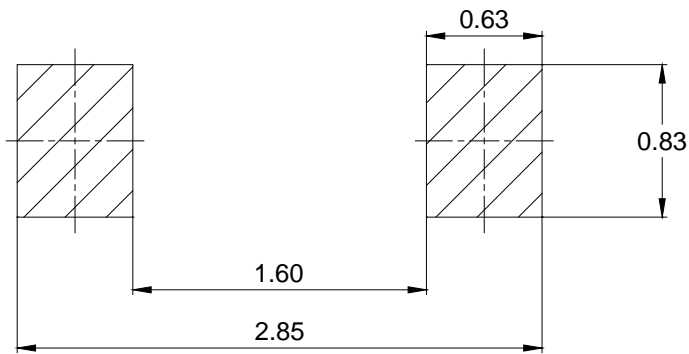
SOD-323		
Dimension	Min.	Max.
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75

Mounting Pad Layout (Unit: mm)

SOD-123



SOD-323



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