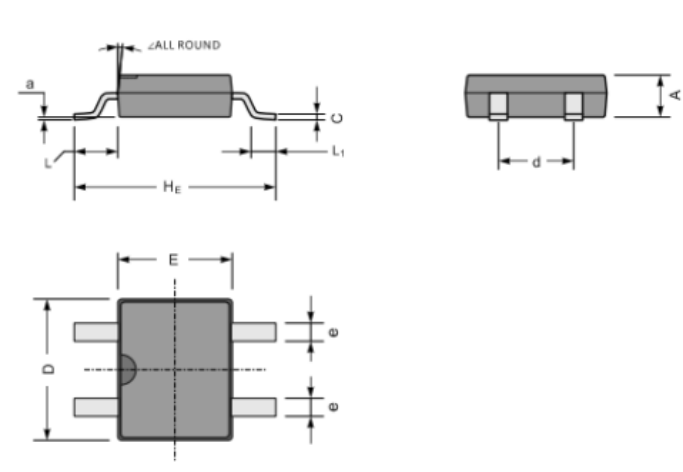


SMD Schottky Bridge

Primary characteristics		
Parameter	Value	Unit
Maximum Repetitive Peak Reverse Voltage	40 ~ 200	V
Maximum Average Forward Rectified Current	1.0	A

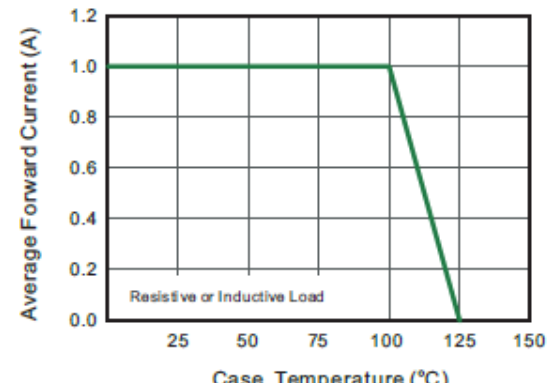
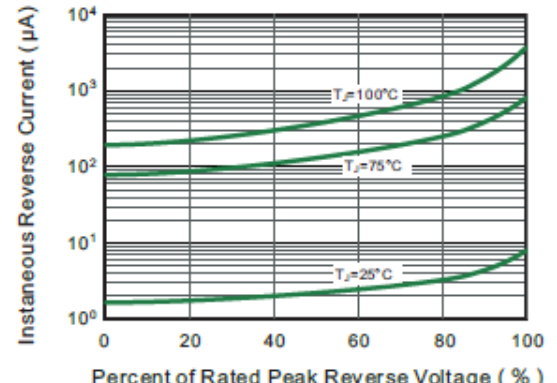
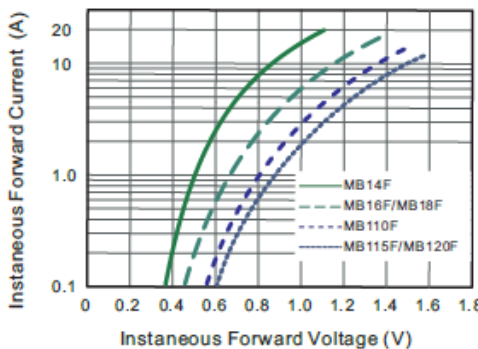
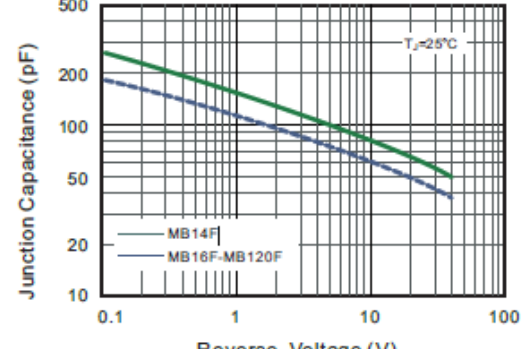
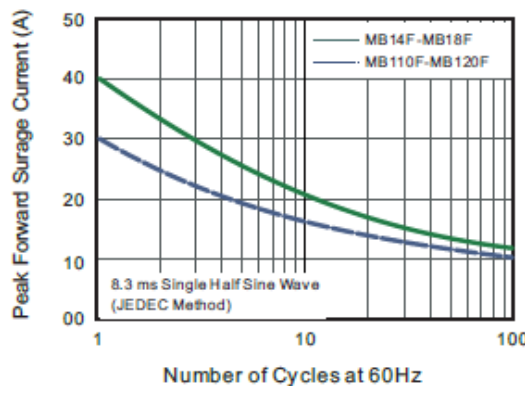
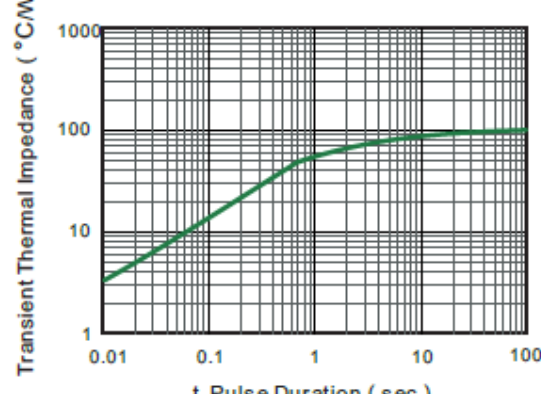
Features

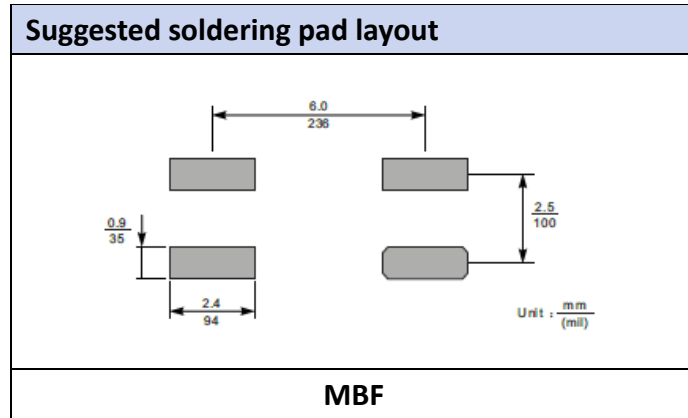
- **MBF** case for easy automatic insertion
- Pb-free and **RoHS** compliant
- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- Solderable per MIL-STD-750, Method 2026

Case dimensions										
										
MBF										
Unit	A	C	D	E	HE	d	e	L	L ₁	a
mm	1.2 ±0.4	0.22 ±0.07	5.0 ±0.5	4.1 ±0.5	7.0 ±0.6	2.7 ±0.5	0.7 ±0.3	1.7 ±0.5	1.1 ±0.5	0.20

Absolute maximum ratings and general electrical characteristics (T _a = 25°C)							
Parameter	Symbol	Value					Unit
		MB14F	MB16F	MB18F	MB110F	MB120F	
Maximum repetitive peak reverse voltage	V _{RRM}	40	60	80	100	200	V
Maximum RMS voltage	V _{RMS}	28	42	56	70	140	
Maximum DC blocking voltage	V _{DC}	40	60	80	100	200	
Average rectified output current	I _{F(AV)}	1.0					A
Peak forward surge current 8.3mS single half sine wave superimposed on rated load (JEDEC method)	I _{FSM}	40		30			
Maximum instantaneous forward voltage @2.0A	V _F	0.55	0.7	0.85	0.90		V
Maximum DC reverse current at rated DC blocking voltage	T _a =25°C	0.3		0.2	0.1		μA
	T _a =100°C	10		5	2.0		
Typical junction capacitance ¹⁾	C _j	110	80				pF
Typical thermal resistance ²⁾	R _{θJA}	100					°C/W
Operating temperature range	T _j	-55 ~ 125					°C
Storage temperature range	T _{stg}	-55 ~ 150					°C

1) Measured at 1.0MHz and applied reverse voltage of 4.0VDC
2) Mounted on glass epoxy PC board with 4x 1.5" x 1.5" (3.81x3.81cm) copper pad

Forward current derating curve	Typical reverse characteristics
	
Typical forward characteristic	Typical junction capacitance
	
Maximum non-repetitive peak forward surge current	Typical transient thermal impedance
	



Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
MB14F ~ MB120F	MBF	5000 pcs / 13" reel	---

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