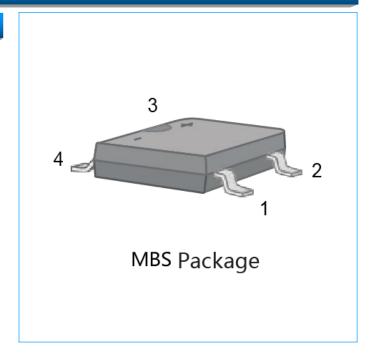




MBxxS-10 Series

Features

- Glass Passivated Chip Junction.
- ♦ Reverse Voltage: 100 to 1000V.
- Forward Current: 1A.
- ♦ High Surge Current Capability.
- Designed for Surface Mount Application.



Mechanical Date

◆ Case: MBS

◆ Terminals: Solderable per MIL-STD-750, Method 2026

◆ Approx. Weight: 100mg /0.0035oz

Pinning

Pin	Description				
1	Input Pin (~)				
2	Input Pin(~)				
3	Output Anode (+)				
4	Output Cathode (-)				





MBxxS-10 Series

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter		Symbol	MB1S-10	MB2S-10	MB4S-10	MB6S-10	MB8S-10	MB10S-10	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Volta	ge	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	100	200	400	600	800	1000	٧
Average Rectified Ou Ta = 50 ℃	lo	1.0							
Peak Forward Surge Current : 8.3ms Single Half Sinewave Superimposed on Rated Load (JEDEC Method)		I _{FSM}	35						
Forward Voltage per Element @I _F =1.0A		V _F	1.1						
Maximum DC Reverse Current at Rated DC Blocking	T _J =25℃ T _J =100℃	I _R	5 40					μА	
Typical Junction Capacitance (Note1)		C³	13						
Typical Thermal Resistance		$R_{\theta JA}$	85						
(Note 2)		$R_{ heta JL}$	30						
Operating and Storage Temperature Range		T _J , T _{STG}	-55 to +150						

Notes:1.Measured at 1MHz and applied reverse voltage of 4 V D.C.

2.Mounted on glass epoxy PC board with $4\times(5\times5mm^2)$ copper pad..





MBxxS-10 Series

Rating and Characteristic Curves

Fig1. Average Rectified Output Current Derating Curve

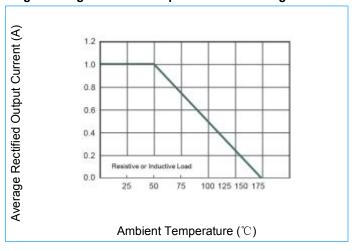


Fig2. Typical Reverse Characteristics

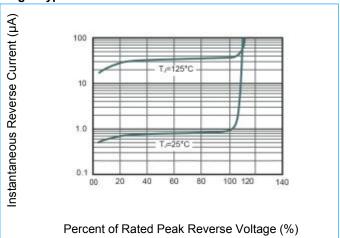


Fig3. Typical Instantaneous Forward Characteristics

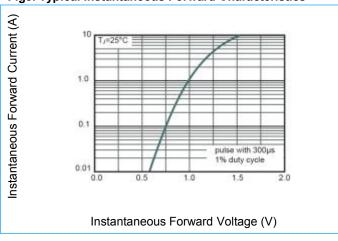


Fig4. Typical Junction Capacitance

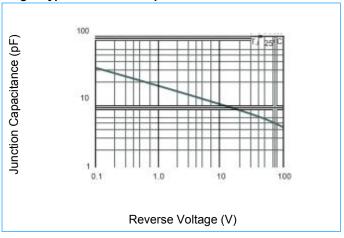
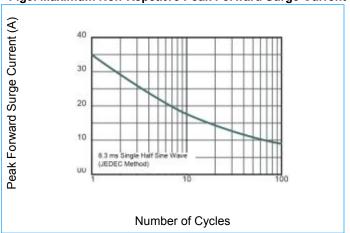


Fig5. Maximum Non-Repetitve Peak Forward Surge Current

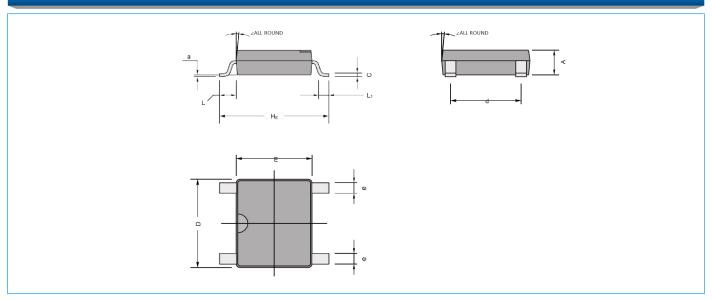






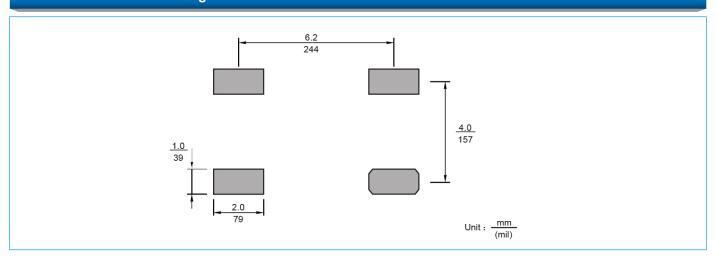
MBxxS-10 Series

Package Outline (Unit: inch(mm))



Unit		A	С	D	E	HE	d	е	L	L1	а	
	Max	2.6	0.22	5.0	4.1	7.0	2.7	0.7	1.7	1.1	0.2	
mm	Min	2.2	0.15	4.5	3.6	6.4	2.3	0.5	1.3	0.5		70
	Max	102	8.7	197	161	276	106	28	67	43	8	7°
mil	Min	94	5.9	177	142	252	91	20	51	20		

The Recommended Mounting Pad Size







MBxxS-10 Series

Packaging Information

Part Number	Quantity				
MBxxS-10 Series	3000 PCS / REEL				