

Description

0A Surface Mount Glass Passivated Bridge Rectifier, MBS package.

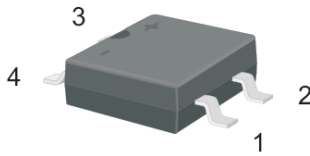
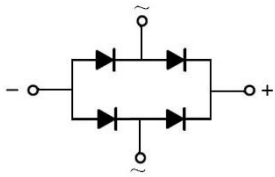
Applications

General purpose

Features

- Glass Passivated Chip Junction
- Reverse Voltage:100to1000V
- Forward Current:1.0A
- High Surge Current Capability
- Designed for Surface Mount
- Application.Halogen free product

Equivalent Circuit & Pinning



PIN1: DC+ PIN2: AC

PIN 3: AC PIN 4: DC-

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating						Unit
		MB1S-10	MB2S-10	MB4S-10	MB6S-10	MB8S-10	MB10S-10	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at T _a = 50°C	I _o	1.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	35						A
Typical Junction Capacitance (Note1)	C _j	13						pF
Typical Thermal Resistance (Note2)	R _{θJA}	85						°C/W
Typical Thermal Resistance (Note2)	R _{θJL}	30						°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55~+150						°C

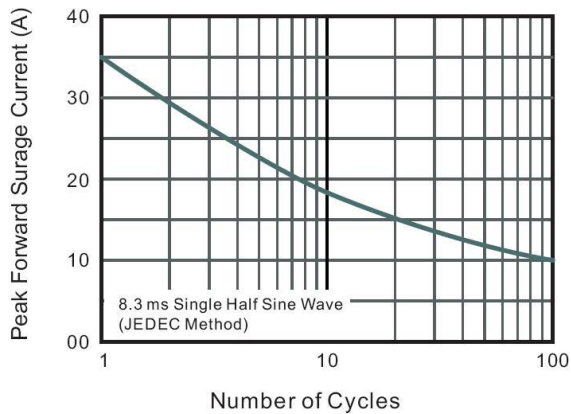
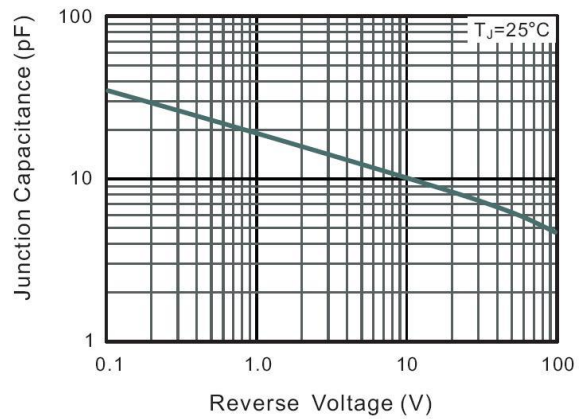
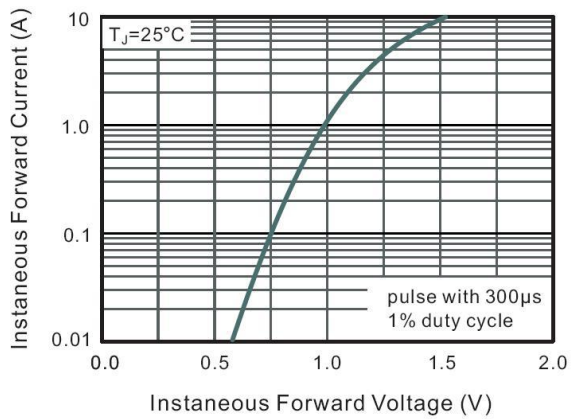
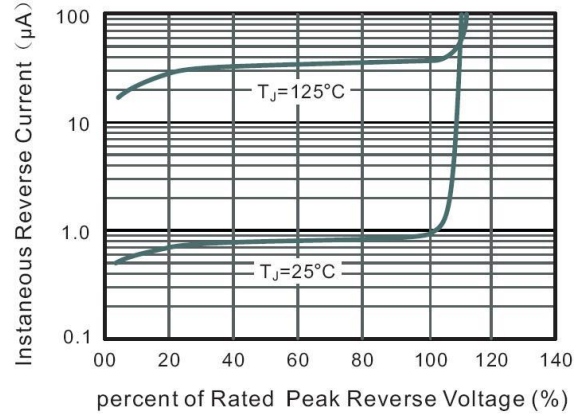
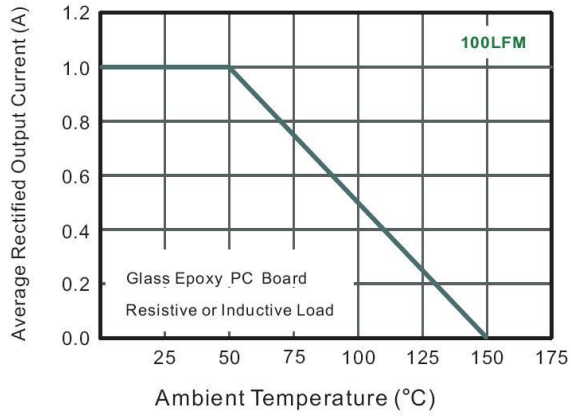
Note:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4 × (5 × 5mm²) copper pad.

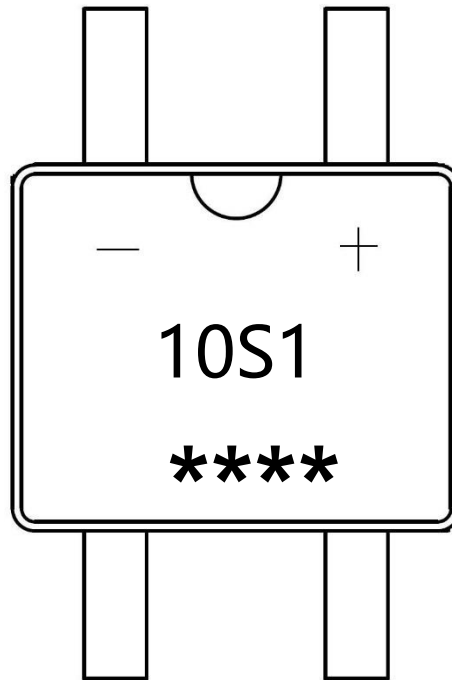
Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test condition	Rating	Unit
Maximum Forward Voltage	V _F	I _F =1.0A	1.1	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I _R	T _a =25°C T _a =125°C	5.0 40	μA

Electrical Characteristic Curve



Marking Instructions



Note:

10S1: Product Type Code

****: Lot No. Code, The 1st * means:YM Code, The last 3 * means:little Lot No Code

Packaging SPEC.

REEL

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
MBS	3000	2	6000	5	30000	13" x15	336X336X40	380X335X366

Package Outline Dimensions

MBS

