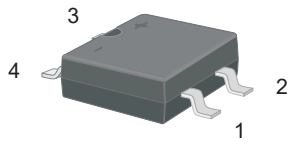
MB24S-TN~MB220S-TN

Surface Mount Glass Passivated Bridge Rectifiers

Features

- Glass Passivated Chip Junction
- Reverse Voltage：40V to 200V
- High Surge Current Capability
- Designed for Surface Mount Application

MBS



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

Marking Code：

MB24S-TN：MB24S
MB26S-TN：MB26S
MB28S-TN：MB28S
MB210S-TN：MB210S
MB220S-TN：MB220S

Maximum Ratings and Electrical Characteristics

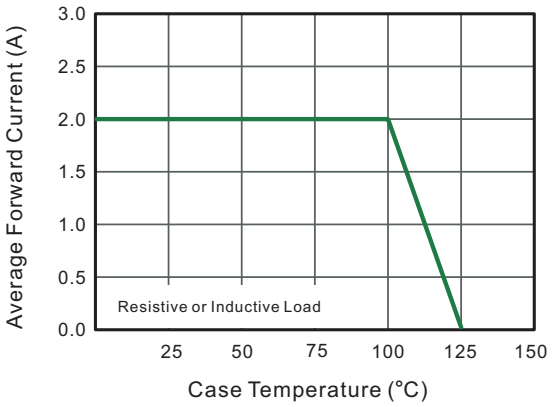
Ratings at 25℃ ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

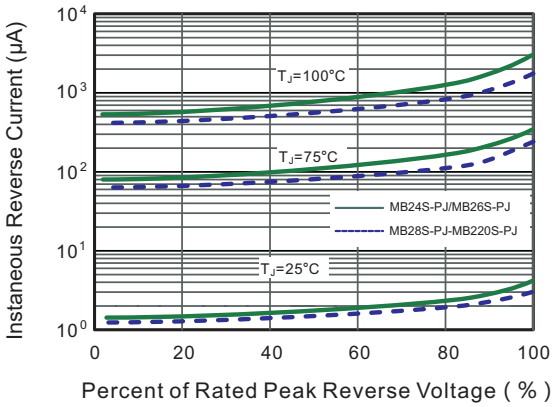
Parameter		Symbols	MB24S-PJ	MB26S-PJ	MB28S-PJ	MB210S-PJ	MB220S-PJ	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	40	60	80	100	200	V
Maximum RMS Voltage		V_{RMS}	28	42	56	70	140	V
Maximum DC Blocking Voltage		V_{DC}	40	60	80	100	200	V
Maximum Average Rectified Output Current at T_C =90°C		I_O	2.0					A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)		I_{FSM}	50		40			A
Maximum Instantaneous Forward Voltage at 2 A		V_F	0.55	0.70	0.85			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A =25°C	I_R	0.5	0.3				mA
	T_A =100°C		10	5				
Typical Junction Capacitance Note1		C_j	220	80				pF
Typical Thermal Resistance Note2		$R_{\theta JA}$	75					°C/W
Junction Temperature		T_J	125					°C
Storage Temperature Range		T_{STG}	-55 to +150					°C

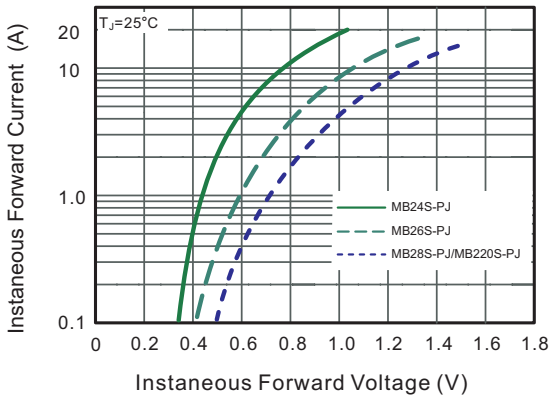
Note:

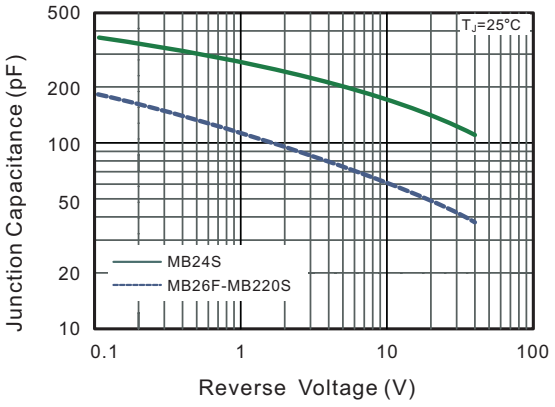
1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. Mounted on glass epoxy PC board with 4×1.5"×1.5"（3.81×3.81 cm）copper pad.

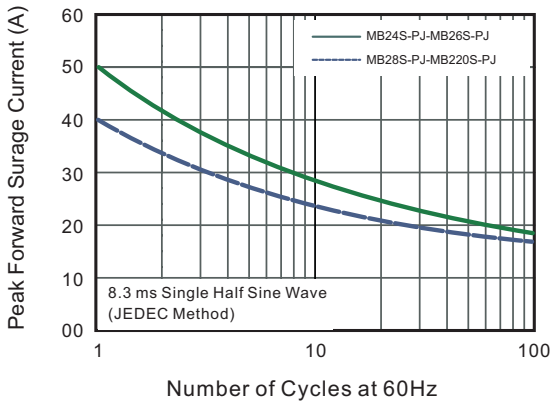
Typical Characteristic Curves

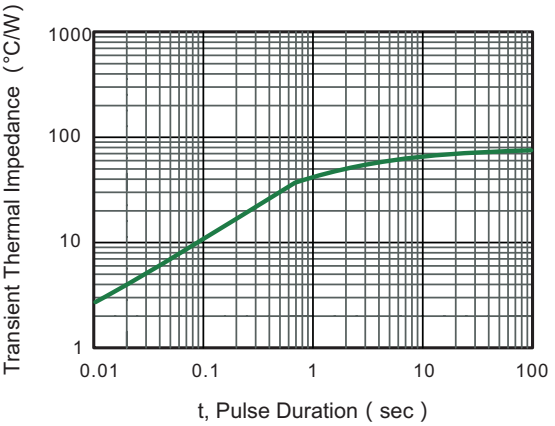




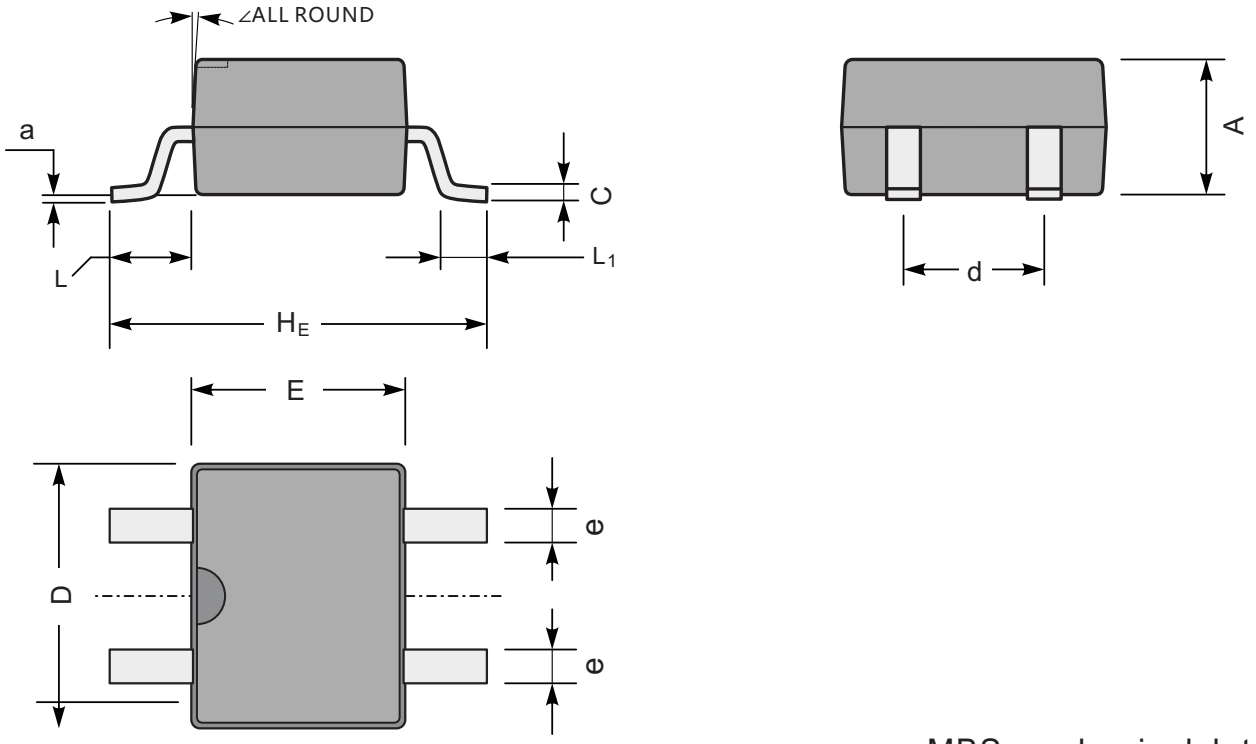








Package Outline (MBS Dimensions in mm)



MBS mechanical data

UNIT		A	C	D	E	H_E	d	e	L	L_1	a	∠
mm	max	2.6	0.22	5.0	4.1	7.0	2.7	0.7	1.7	1.1	0.2	7°
	min	2.2	0.15	4.5	3.6	6.4	2.3	0.5	1.3	0.5	—	
mil	max	102	8.7	197	161	276	106	28	67	43	8	
	min	94	5.9	177	142	252	91	20	51	20	—	

Contact Information

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For additional information, please contact your local Sales Representative.

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