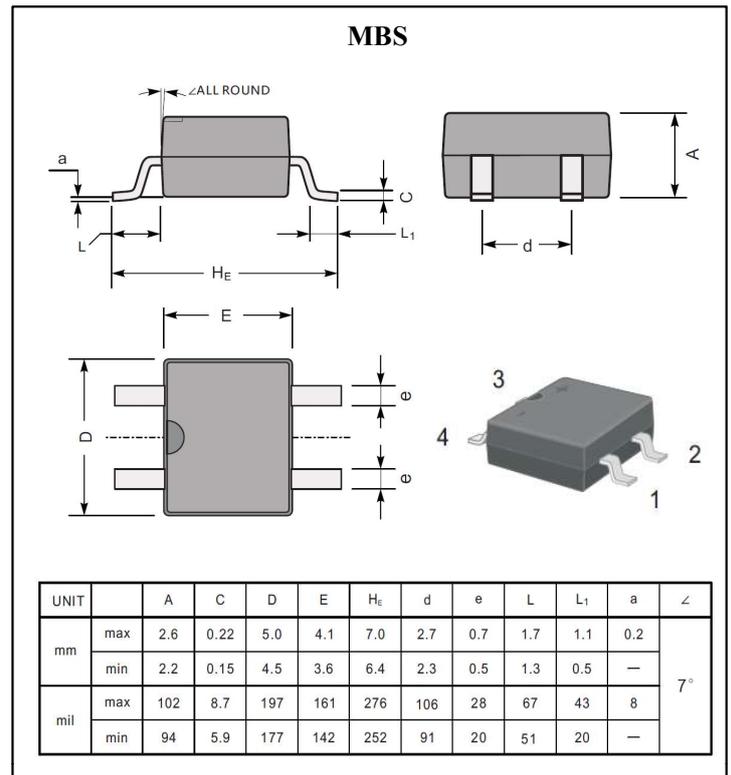
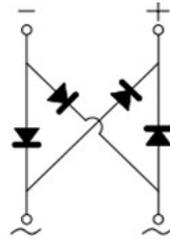
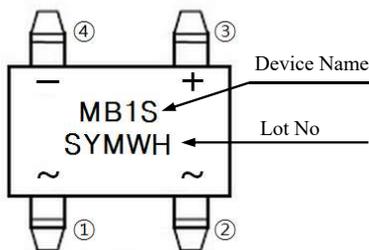


**Surface Mount Glass Passivated Single-Phase Bridge Rectifiers**  
**Reverse Voltage 100 to 1000 Volts Forward Current 0.8 Amperes**
**Features**

- Glass passivated junction chip
- Ideally suited for automatic assembly
- Save space on printed circuit boards
- Low forward voltage drop
- Designed for surface mount application
- Plastic material used carries underwriters laboratory classification 94V-0
- High temperature soldering : 260°C /10 seconds at terminals

**Mechanical Data**

- Case : MBS, Molded plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Polarity : As marked on case
- Weight : 0.22 gram (Approx.)

**Marking**

**Maximum Ratings & Electrical Characteristics (If not specified Ta =25°C)**

Parameter	Symbol	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Unit	Remark
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	
Maximum Average Forward Rectified Current	$I_O$	0.8						A	$T_c=125^\circ\text{C}$
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	30						A	
Maximum Instantaneous Forward Voltage at 0.4A at 0.8A	$V_F$	1.0 1.1						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	5.0						uA	$T_a=25^\circ\text{C}$
		40						uA	$T_a=125^\circ\text{C}$
Typical Junction Capacitance	$C_J$	13						pF	Note 1
Typical Thermal Resistance	$R_{th(j-a)}$	90						$^\circ\text{C}/\text{W}$	Note 2
	$R_{th(j-c)}$	32						$^\circ\text{C}/\text{W}$	
Operation Junction Temperature Range	$T_J$	-55 to +150						$^\circ\text{C}$	
Storage Temperature Range	$T_{STG}$	-55 to +150						$^\circ\text{C}$	

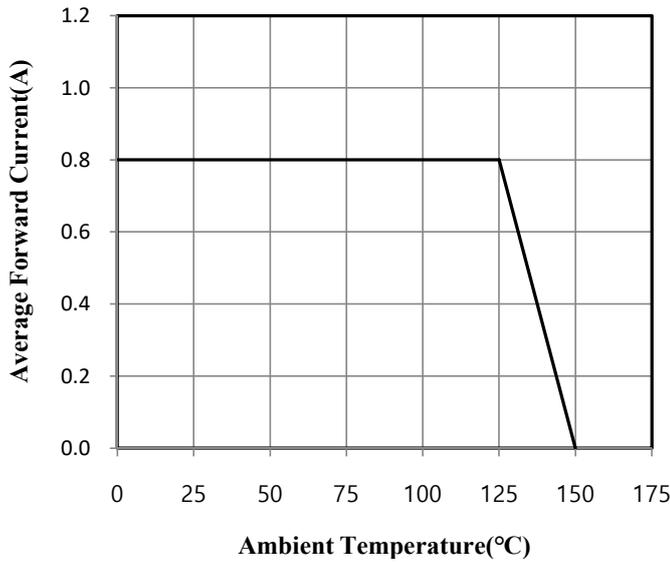
Note 1. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

Note 2. Mounted on glass epoxy PC board with 4 ×1.5" ×1.5" (3.81 × 3.81cm) copper pad.

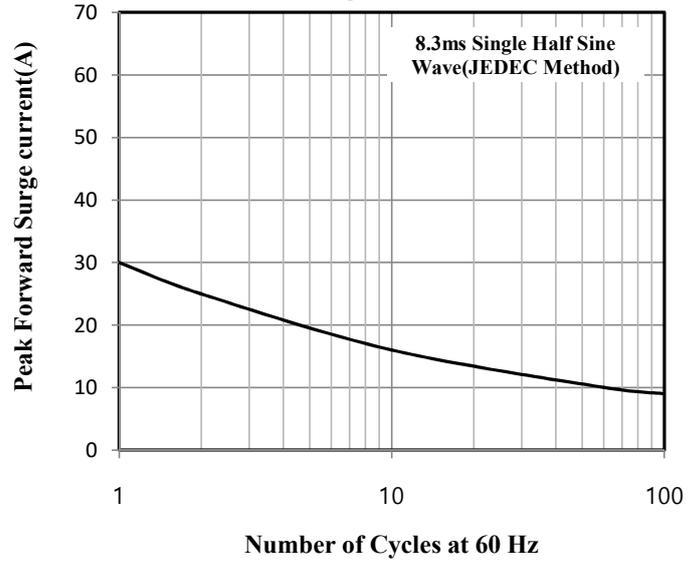


Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

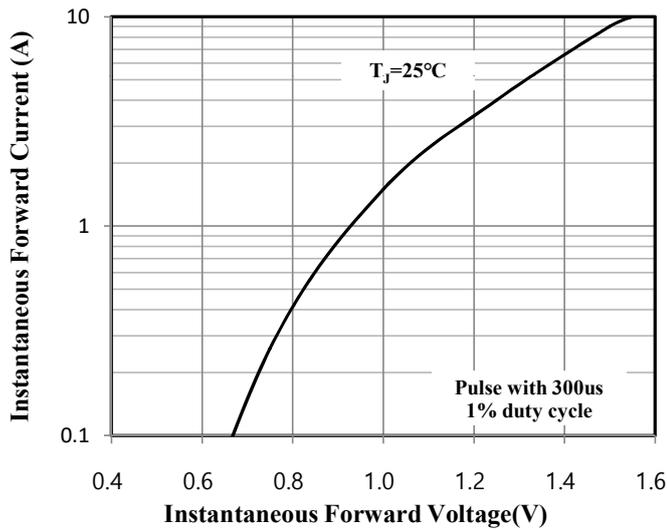
**Fig.1 Forward Current Derating Curve**



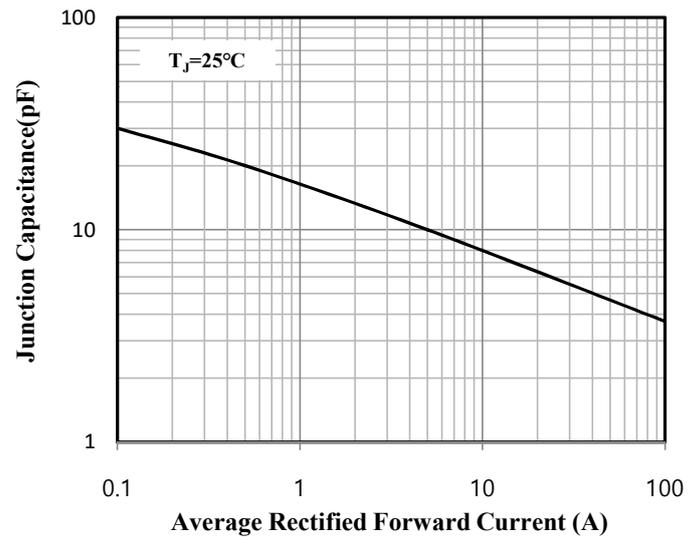
**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



**Fig.5 Typical Reverse Characteristics**

