



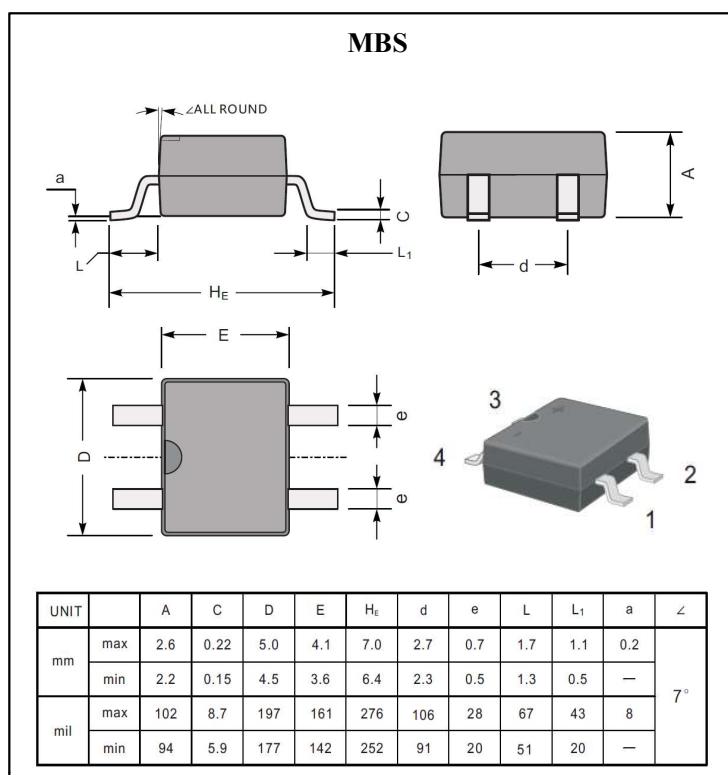
Surface Mount Glass Passivated Single-Phase Bridge Rectifiers
Reverse Voltage 100 to 1000 Volts Forward Current 1.0 Amperes

Features

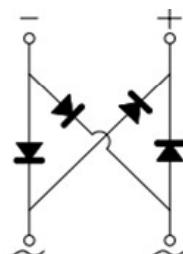
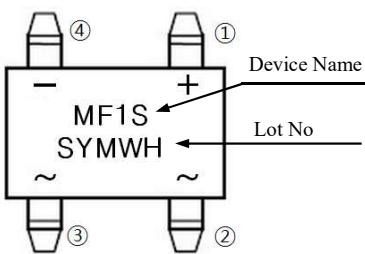
- Glass passivated junction chip
- Ideally suited for automatic assembly
- Save space on printed circuit boards
- Low forward voltage drop
- Designed for surface mount application
- Plastic material used carries underwriters laboratory classification 94V-O
- High temperature soldering : 260°C /10 seconds 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	MF1S	MF2S	MF4S	MF6S	MF8S	MF10S	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	1.0						A	Tc=125°C
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	40						A	
Maximum Instantaneous Forward Voltage at 1.0A	V _F	1.1						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	5.0						uA	Ta=25°C
Typical Junction Capacitance	C _J	13						pF	Note 1
		90						°C/W	Note 2
Typical Thermal Resistance	R _{th(j-l)}	20						°C/W	
		-55 to +150						°C	
Operation Junction Temperature Range	T _J	-55 to +150						°C	
Storage Temperature Range	T _{STG}	-55 to +150						°C	

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

Note 2. On aluminum substrate P.C.B. with an area of 0.8 x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad



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

Fig.1 Forward Current Derating Curve

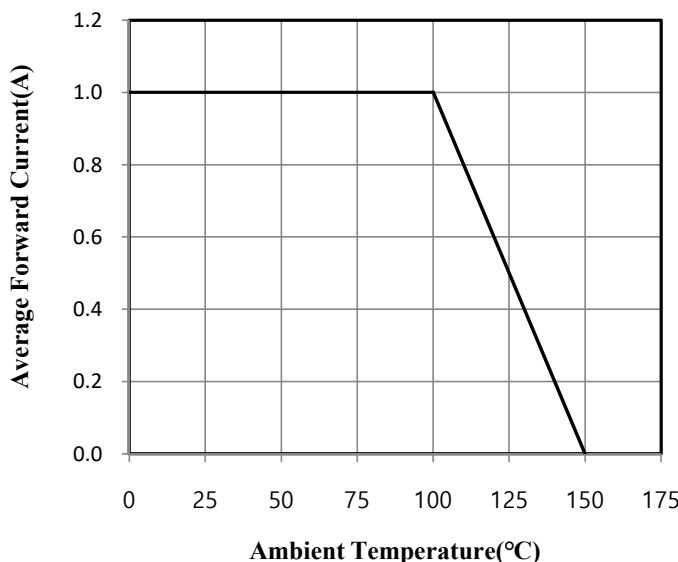


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

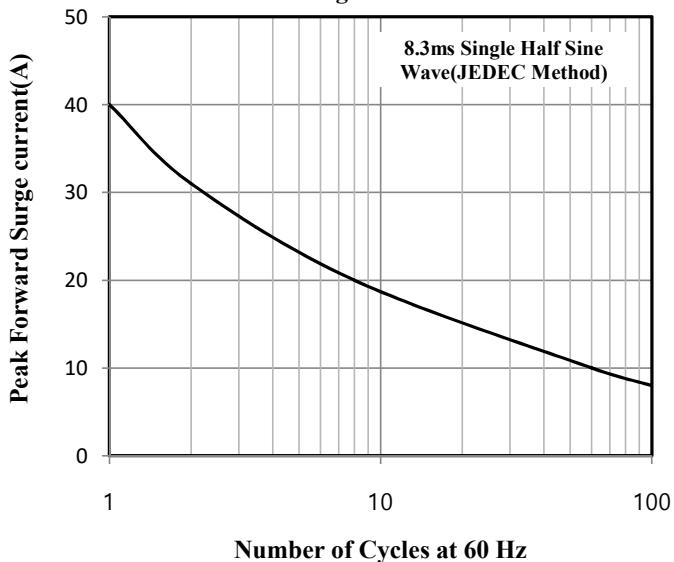


Fig.3 Typical Instantaneous Forward Characteristics

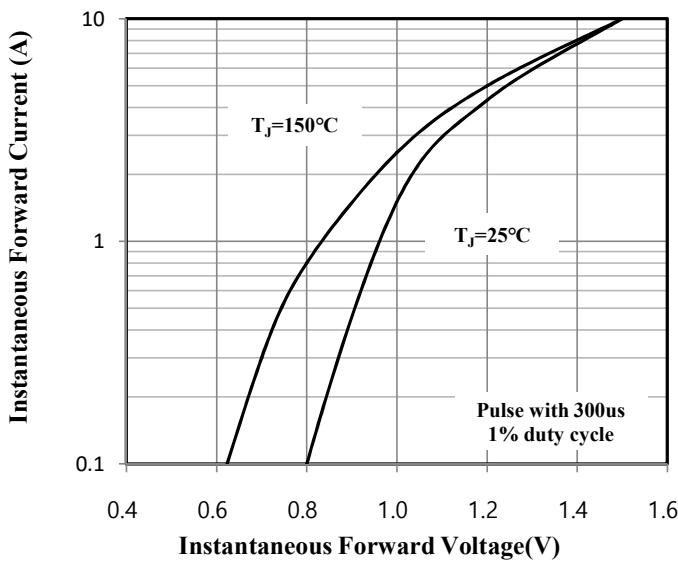


Fig.4 Typical Junction Capacitance

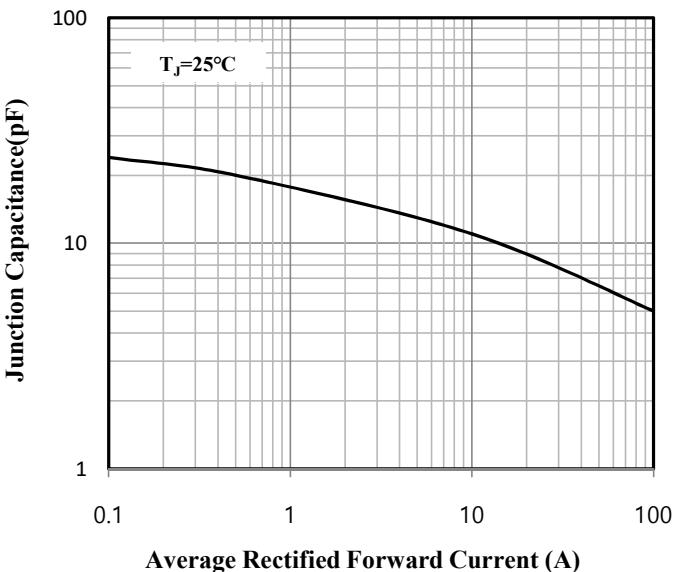


Fig.5 Typical Reverse Characteristics

