

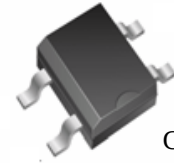
FEATURES

- UL Recognized Component
- Ideal for Printed Circuit Board
- Simple, Compact Structure for Trouble-free Performance
- Plastic Package - UL Flammability Classification 94V-0

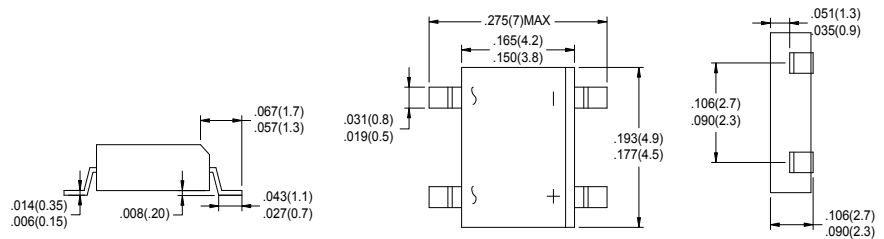
Mechanical Data

- Case: Transfer Molded Epoxy
- Mounting Position: Any
- Polarity: Polarity Symbols Marked on Body

MB05S --- MB10S



CASE:MB-S



Unit: mm

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

Characteristic	Symbo	MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage DC	V _{RWM}								
Blocking Voltage	V _R								
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T _A = 40°C	I _O	0.5							A
Average Rectified Output Current (Note 2) @T _A = 40°C		0.8							
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	5.0							A ² s
Forward Voltage per element @I _F = 0.5A	V _{FM}	1.0							V
Peak Reverse Current @T _A = 25°C	I _{RM}	5.0							μA
At Rated DC Blocking Voltage @T _A = 125°C		500							
Typical Junction Capacitance per leg (Note 3)	C _j	13							pF
Typical Thermal Resistance per leg (Note 1)	R _{θJA}	75							°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to +150							°C

Notes: 1. Thermal resistance from junction to ambient mounted on PC board with 13mm x 13mm copper pads.
2. 60 Hz resistive or inductive load.
3. For capacitive load, derate current by 20%.

MB05S --- MB10S CHARACTERISTIC CURVES

