

MB005S - MB10S

PRV: 50 - 1000 Volts

lo: 1.0 Ampere

FEATURES:

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Ideal for printed circuit board
- * Pb / RoHS Free

MECHANICAL DATA:

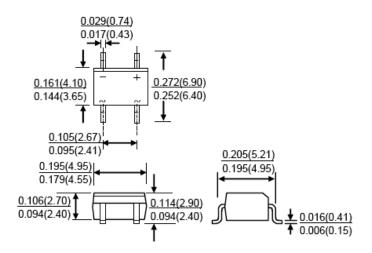
- * Case: Molded plastic
- * Epoxy: UL94V-O rate flame retardant
- Terminals: Plated Lead solderable per MIL-STD-750,

Method 2026

* Polarity : Polarity symbols marked on body

* Mounting position : Any* Weight : 0.4 gram

SURFACE MOUNT BRIDGE RECTIFIERS MBS (TO-269AA)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at $25\,^{\circ}$ C ambient temperature unless otherwise specified. 60 Hz, resistive or inductive load.

RATING	SYMBOL	MB005S	MB01	MB02	MB04	MB06	MB08S	MB10	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current at Ta = 40°C	lF(AV)	1.0							Α
Maximum Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	50							А
Current Squared Time at t < 8.3 ms.	l ² t	10							A ² S
Maximum Instantaneous Forward Voltage per element at IF = 1.0 A	VF	1.1							V
Maximum DC Reverse Current Ta = 25°C	lr	10							μΑ
at Rated DC Blocking Voltage Ta = 125°C	IR(H)	500							μΑ
Typical Junction Capacitance per element (Note 1)	Cj	25							pF
Typical Thermal Resistance (Note 2)	RθJA	40							°C/W
Junction and Storage Temperature Range	TJ, Tsтg	- 55 to + 150							°C

Notes: (1) Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

(2) Thermal Resistance from Junction to Ambient on P.C.B. with 0.5" x 0.5" (13mm x 13mm) Copper Pads.



