

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
- · RoHS compliant package

Mechanical Characteristics

· 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

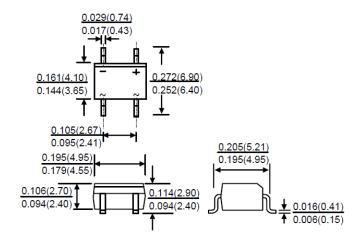
· Weight: 0.4 gram

Packing & Order Information

50/Tube; 1,000/Box

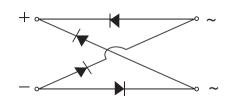


MBS (TO-269AA)



Dimensions in inches and (millimeters)

Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. 60 Hz, resistive or inductive load.									
00 FIZ, Tesistive of Illudelive load.	Symbol	MB005	MB01	MB02	MB04	MB06	MB08	MB010	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	15(4)()	1.0							А
Rectified Current at Ta = 40°C	IF(AV)								
Maximum Peak Forward Surge Current									
Single half sine wave Superimposed	IFSM 50						Α		
on rated load (JEDEC Method)									



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Rating at 25 °C ambient temperature unless otherwise specified. 60 Hz, resistive or inductive load.										
	Symbol	MB005	MB01	MB02	MB04	MB06	MB08	MB010	Unit	
Current Squared Time at t < 8.3 ms.	l ² t	10							A ² S	
Maximum Instantaneous Forward Voltage	\/_	1.1							V	
per element at IF = 1.0 A	VF									
Maximum DC Reverse Current Ta = 25°C	IR	10							μA	
at Rated DC Blocking Voltage Ta = 125°C	IR(H)	500							μA	
Typical Junction Capacitance per element	0:	25							pF	
(Note 1)	Cj									
Typical Thermal Resistance (Note 2)	RθJA	40							°C/W	
Junction and Storage Temperature Range	T_J, T_{STG}	-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.



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■RATING AND CHARACTERISTIC CURVES (MB005 - MB010)

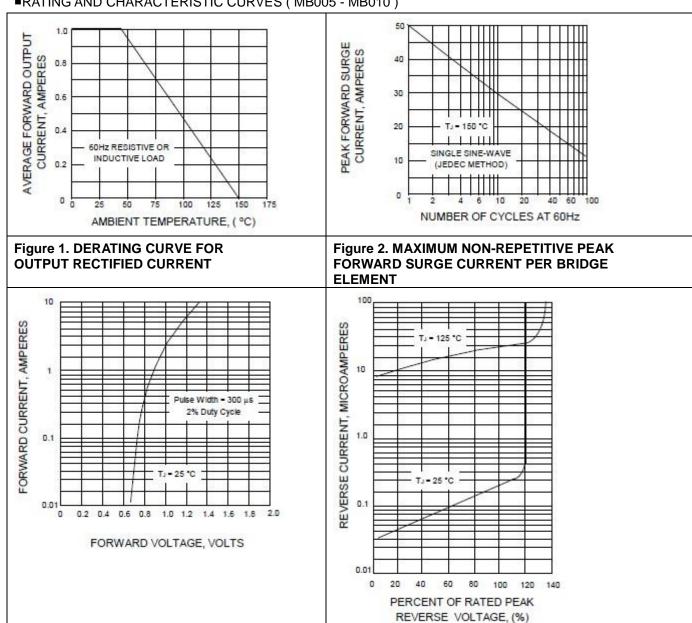


Figure 4. TYPICAL REVERSE

CHARACTERISTICS PER BRIDGE ELEMENT

Figure 3. TYPICAL FORWARD

CHARACTERISTICS



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