



MB05S thru MB10S

0.8 A Single-Phase Glass Passivated Bridge Rectifiers

Rectifier Reverse Voltage 50 to 1000V

Features

- This series is UL listed under the Recognized Component Index, file number E142814
 - Ideal for surface mount application
 - The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
 - Surge overload ratings to 30 amperes
 - High temperature soldering guaranteed 260°C/5 seconds at 5 lbs (2.3kg) tension

Mechanical Data

Case: Molded plastic

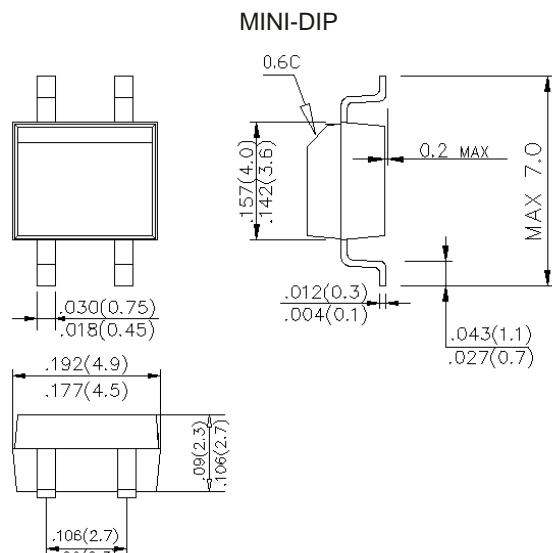
Terminals: Plated leads solderable per MIL-STD-202,

Method 208

Polarity: Marked on body

Mounting Position: Any

Weig



Dimensions in millimeters (1 mm = 0.0394")

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
For Capacitive load derate current by 20%.

Parameter	Symbol	MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input 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 rectified output current at TA=40°C	IF(AV)				0.8				A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM				30				A
Rating for fusing (t<8.3ms)	I ² t				10				A ² sec
Typical thermal resistance per element (1)	ReJA				110				°C /W
Typical junction capacitance per element (2)	C _j				25.0				pF
Operating junction and storage temperature range	T _J , T _{TSG}				-55 to + 150				°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

Parameter	Symbol	MB05S	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Maximum instantaneous forward voltage drop per leg at 0.8A	VF				1.1				V
Maximum DC reverse current at rated TA =25 °C DC blocking voltage per element TA =125 °C	IR				10	500			µA

Notes: (1) Thermal resistance from Junction to Ambient on P.C.board mounting.

(2) Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

Rating and Characteristic Curves (TA=25°C Unless otherwise noted)
MB05S thru MB10S

Fig. 1 Derating Curve for Output Rectified Current

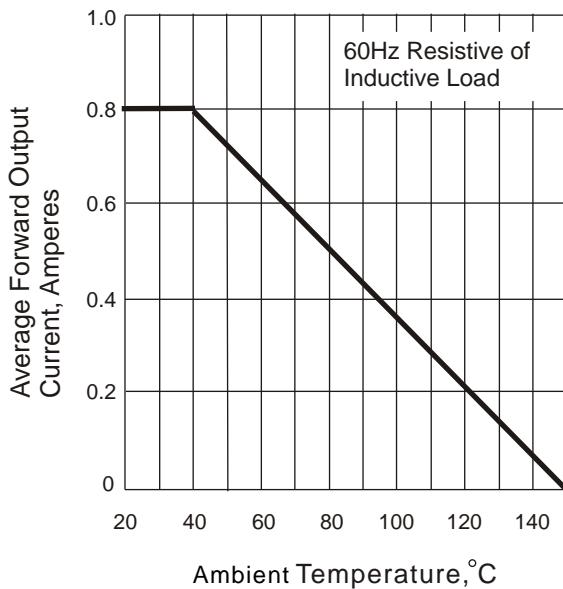


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

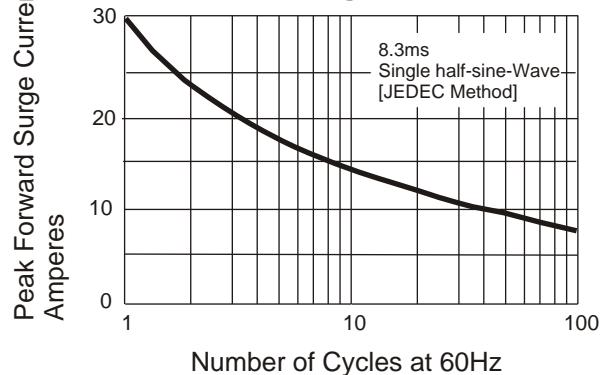


Fig. 3 Typical Instantaneous Forward Characteristics

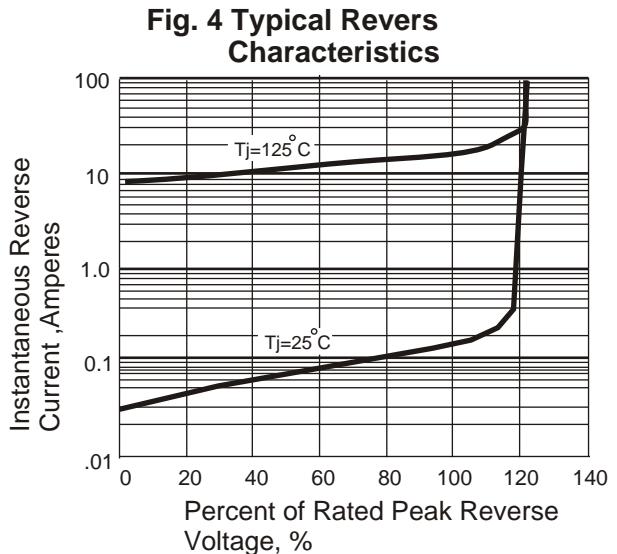
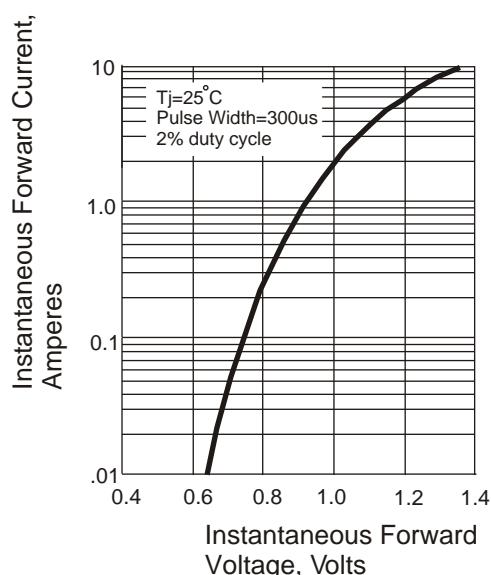
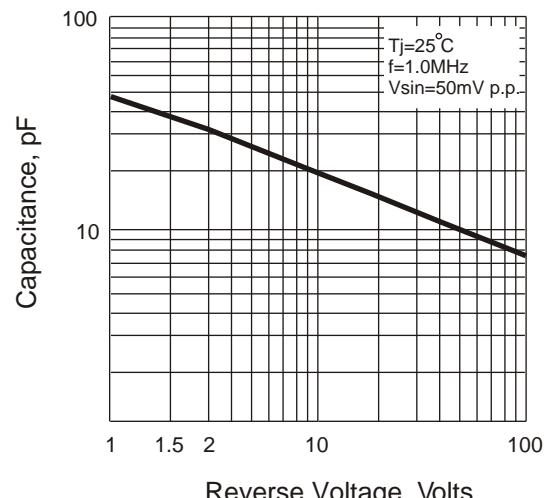


Fig. 5 Typical Junction Capacitance



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