

# 0.5 Ampere Glass Passivated Bridge Rectifiers

Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
lo	Average Rectified Current @ $T_A = 50^{\circ}C$	0.5	А	
İf(surge)	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	35	A	
PD	Total Device Dissipation Derate above 25°C	1.4	W mW/°C	
R <sub>JA</sub>	Thermal Resistance, Junction to Ambient,** per leg	85	°C/W	
R <sub>JL</sub>	Thermal Resistance, Junction to Lead,** per leg	20	°C/W	
T <sub>stg</sub>	Storage Tem perature Range	-55 to +150	°C	
TJ	Operating Junction Tem perature	-55 to +150	°C	

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

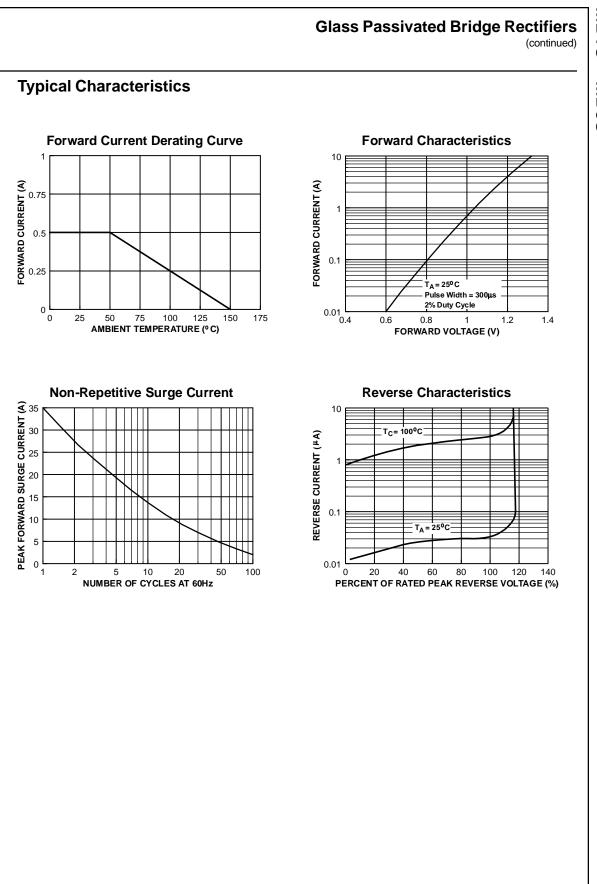
\*\* Device mounted on PCB with 0.5-0.5" (13x13 mm) lead length.

## **Electrical Characteristics** $T_A = 25^{\circ}C$ unless otherwise noted

Parameter		Device					Units
		1S	2S	4S	6S	8S	-
Peak Repetitive Rever	100	200	400	600	800	V	
Maximum RMS Bridge	Input Voltage	70	140	280	420	560	V
DC Reverse Voltage	(Rated V <sub>R</sub> )	100	200	400	600	800	V
Maximum Reverse Lea	akage,		·			1	
per leg @ rated V <sub>R</sub>	$T_A = 25^{\circ}C$			5.0			Α
	T <sub>A</sub> = 125°C			0.5			mA
Maximum Forward Vol	Itage Drop,		-				
per bridge @ 0.5 A		1.0				V	
I <sup>2</sup> t rating for fusing	t < 8.3 ms	5.0			A <sup>2</sup> t		
Typical Junction Capa	13				pF		
V <sub>R</sub> = 4.0 V, f = 1.	.0 MHz						

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MB1S-MB8S, Rev. A



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