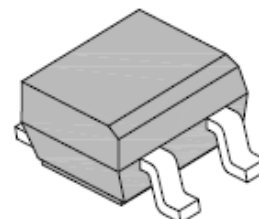


0.5A Surface Mount Bridge Rectifier

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material – UL Flammability 94V-0
- RoHS Compliant



MBS



Mechanical Data

Case:	MBS, molded plastic
Terminals:	Plated leads solderable per MIL-STD-202, method 208
Polarity:	As marked on case
Mounting Position:	Any
Weight:	0.22 grams

Maximum Ratings And Electrical Characteristics ($T_{amb}=25^{\circ}\text{C}$)

Symbol	Description	MB2S	MB4S	MB6S	MB8S	Unit	Conditions
VRRM	Max. Repetitive Peak Reverse Voltage	200	400	600	800	V	
VRMS	Max. RMS Voltage	140	280	420	560	V	
VDC	Max. DC Blocking Voltage	200	400	600	800	V	
IF(AV)	Average Rectified Output Current	0.5				A	$T_A=40^{\circ}\text{C}$, Note 1
		0.8				A	$T_A=40^{\circ}\text{C}$, Note 2
IFSM	Non-Repetitive Peak Forward Surge Current	30				A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
VF	Forward Voltage per leg	1.0				V	$I_F=0.5\text{A}$

0.5A Surface Mount Bridge Rectifier

MB2S – MB8S

Symbol	Description	MB2S	MB4S	MB6S	MB8S	Unit	Conditions
I _R	Max. Reverse DC Current At Rated DC Blocking Voltage per leg	5.0				μA	T _A =25°C
		500				μA	T _A =125°C
I _t ²	Rating for Fusing (t<8.3ms)	3.73				A²s	
C _J	Typical junction capacitance per leg	25				pF	V _R = 4V, f=1MHz
R _{thJA}	Typical Thermal Resistance per leg	85				°C / W	Note 1
R _{thJL}		20					
T _J ,T _{STG}	Operating Junction and Storage Temperature Range	-55 to +150				° C	

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.
2. Mounted on aluminum substrate PC board with 1.3mm² solder pad.

Typical Characteristics Curves

Fig.1- Output Current Derating Curve

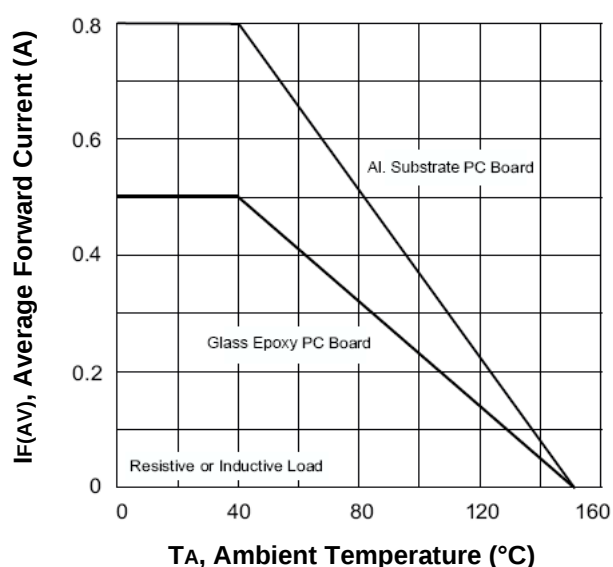
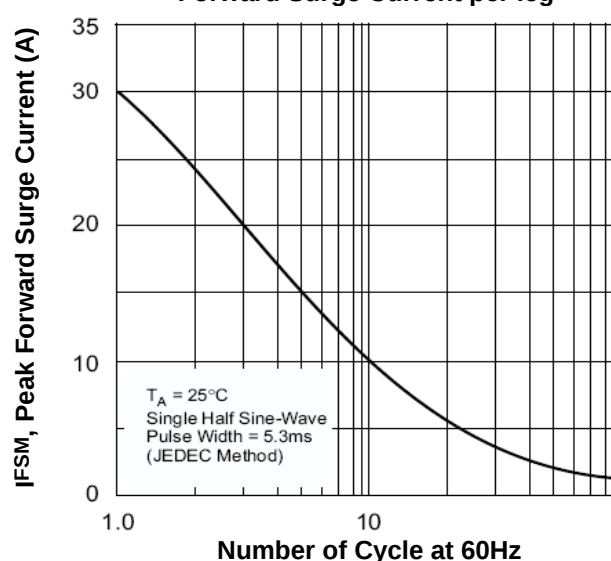


Fig.2-Max. Non-repetitive Peak Forward Surge Current per leg



0.5A Surface Mount Bridge Rectifier

MB2S – MB8S

Fig.3-Typical Instantaneous Forward Characteristic per leg

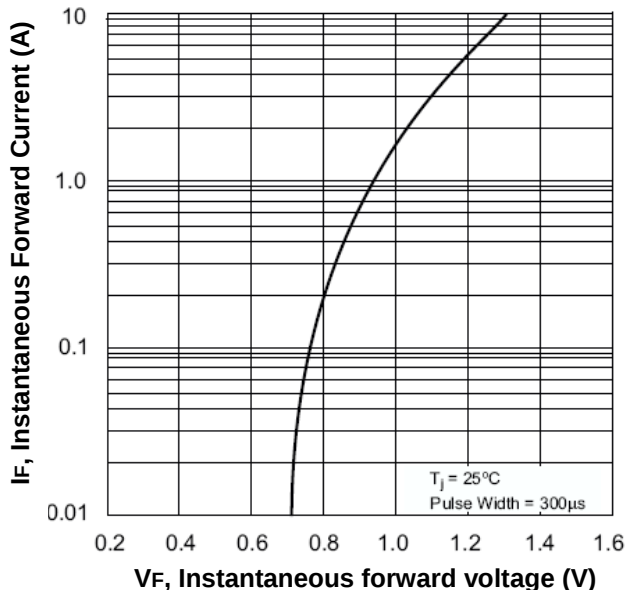


Fig.4-Typical Reverse Characteristics per leg

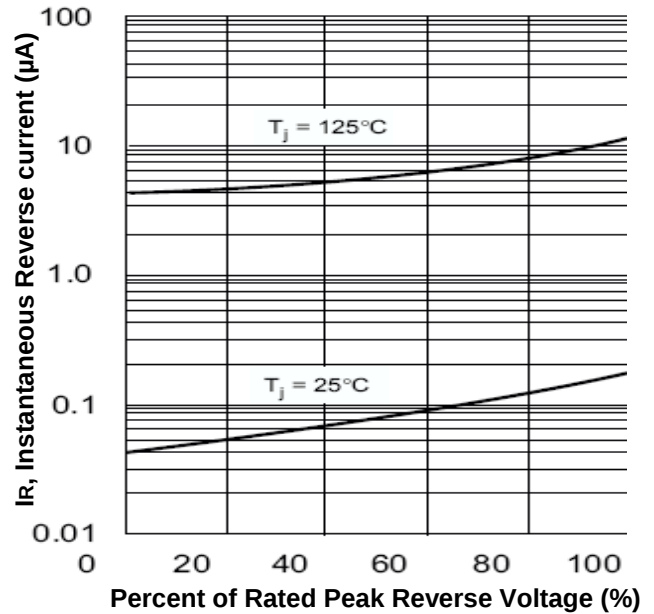
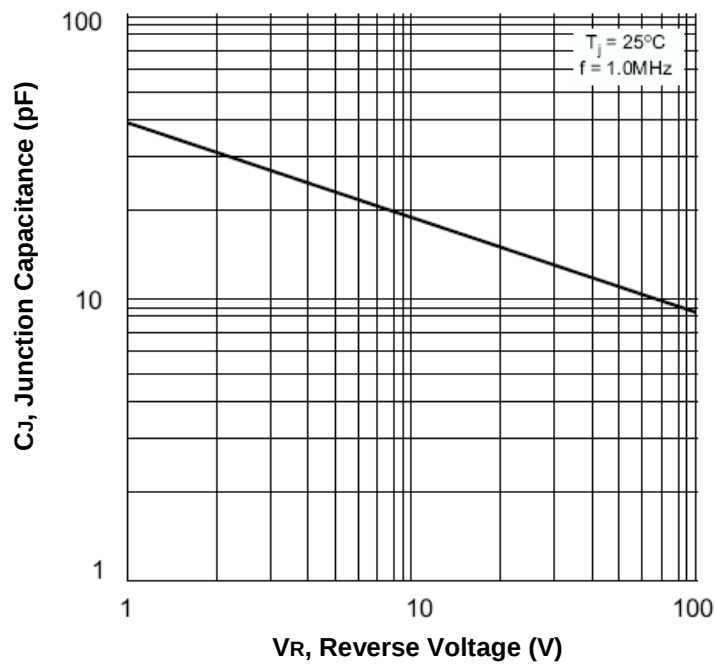


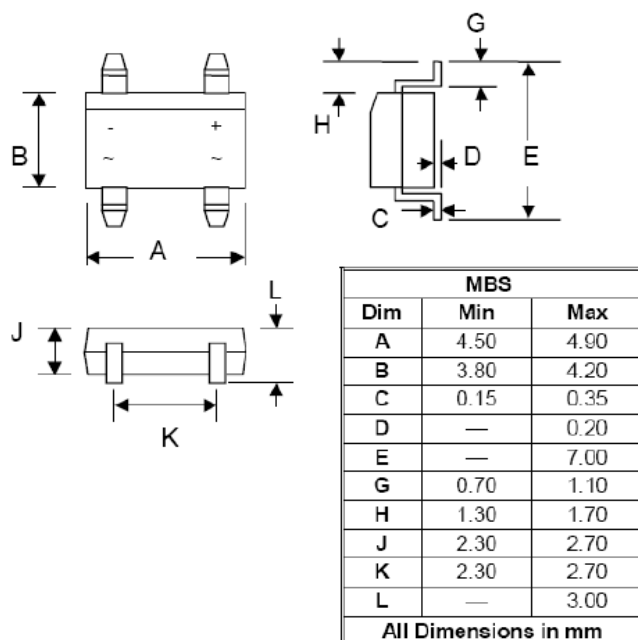
Fig.5-Typical Junction Capacitance



0.5A Surface Mount Bridge Rectifier

MB2S – MB8S

Dimensions in mm



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