

## Features

- High Temperature Soldering Guaranteed: 260°C/10 Second
- Saves Space On Printed Circuit Board
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Terminals: Plated Leads Solderable Per MIL-STD-750, Method 2026

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note2): 134°C/W Junction to Ambient
- Typical Thermal Resistance(Note3): 134°C/W Junction to Ambient
- Typical Thermal Resistance(Note2): 20°C/W Junction to Lead

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBL1S	BL1S	100V	70V	100V
MBL2S	BL2S	200V	140V	200V
MBL4S	BL4S	400V	280V	400V
MBL6S	BL6S	600V	420V	600V
MBL8S	BL8S	800V	480V	800V
MBL10S	BL10S	1000V	700V	1000V

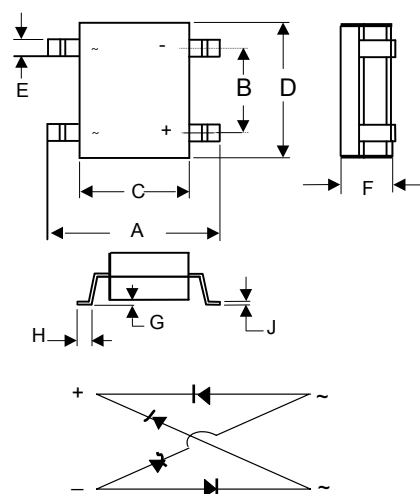
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	0.5A <sup>(2)</sup> 0.8A <sup>(3)</sup>	See Fig.1
Peak Forward Surge Current	$I_{FSM}$	35A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	1.0V	$I_{FM} = 0.4A$ $T_A = 25^\circ C$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	10µA	$T_A = 25^\circ C$
Typical Junction Capacitance	$C_J$	13pF	Measured at 1.0MHz, $V_R = 4.0V$
Rating For Fusing	$I^2t$	5.1A <sup>2</sup> S	$t < 8.3ms$

- Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7  
 2. On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads  
 3. On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

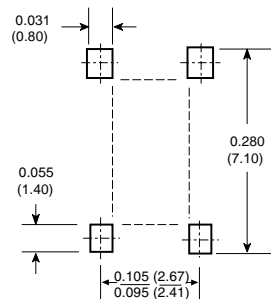
# 0.5 Amp Single Phase Glass Passivated Bridge Rectifier 100 to 1000 Volts

MBLS-1



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.252	0.283	6.40	7.20	
B	0.087	0.102	2.20	2.60	
C	0.142	0.193	3.60	4.90	
D	0.177	0.200	4.55	5.10	
E	0.022	0.033	0.55	0.84	
F	0.045	0.063	1.15	1.60	
G	0.000	0.008	0.00	0.20	
H	0.016	0.043	0.40	1.10	
J	0.004	0.016	0.10	0.35	



**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

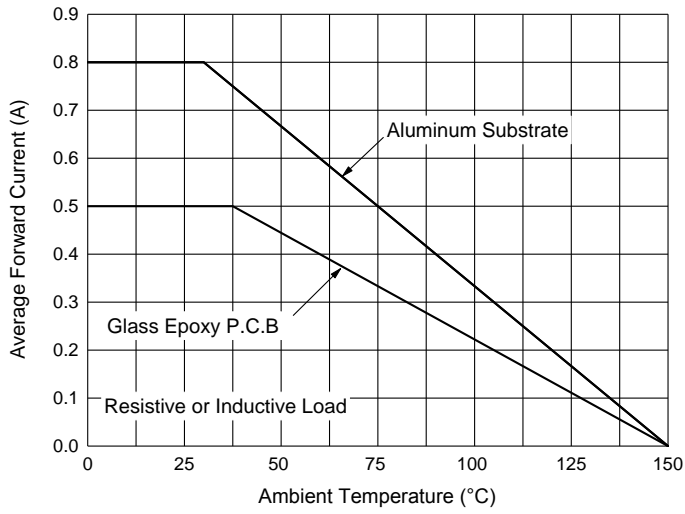


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

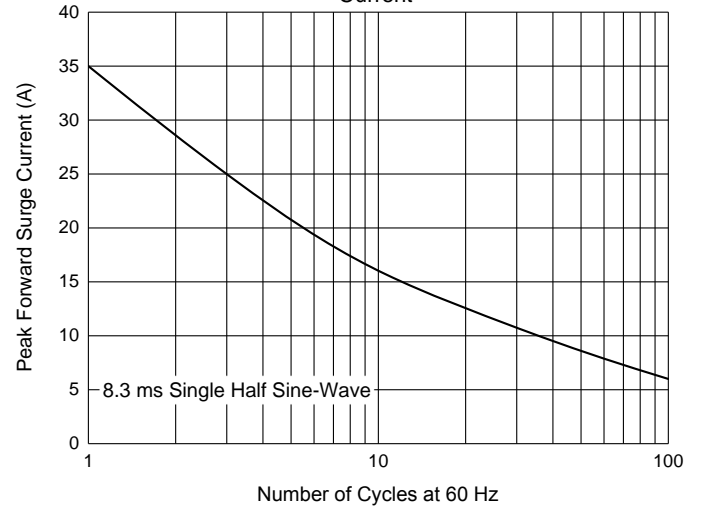


Fig. H - Typical Instantaneous Forward Characteristics

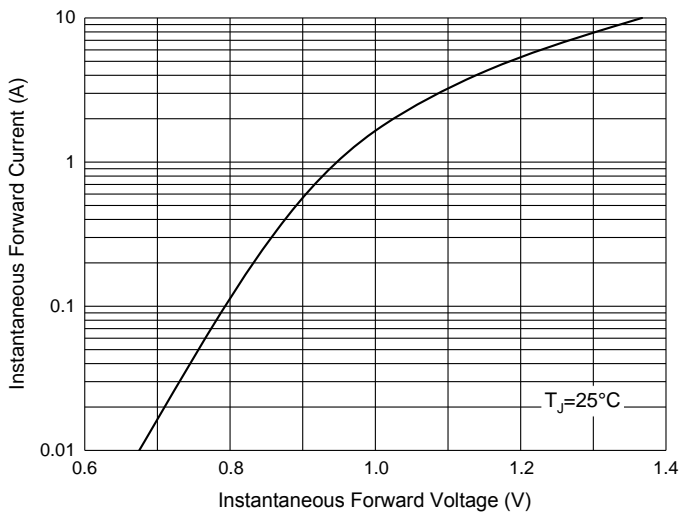
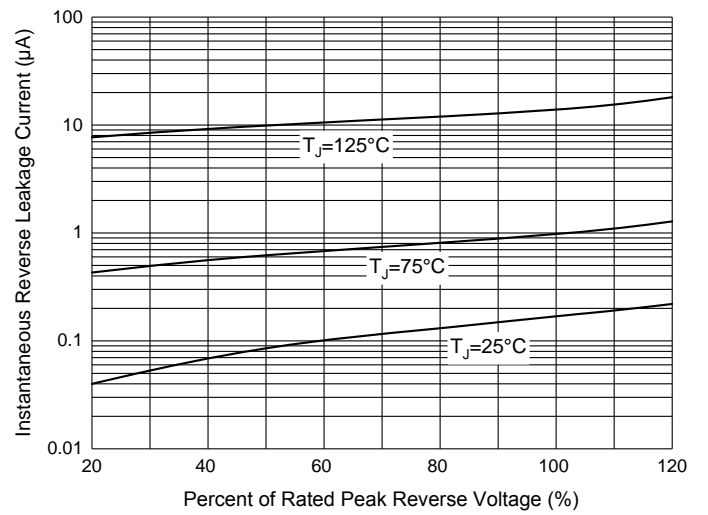


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
Part Number-TP	Tape&Reel;4Kpcs/Reel

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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