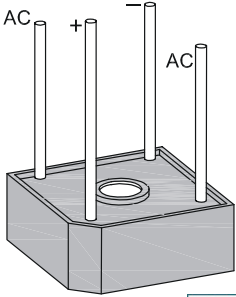


10A Bridge Rectifier

Features

- Low cost
- High current capability
- High surge current capability
- High isolation voltage from case to leads
- Ideal for printed circuit board application
- High temperature soldering guaranteed:
260°C/10 seconds, at 5 lbs. (2.3kg) tension
- RoHS Compliant



MP10



Mechanical Data

Case:	MP10, Molded plastic body with Metal Heat Sink
Epoxy:	Meets UL 94V-0 flammability rating
Terminals:	Plated leads solderable per MIL-STD-202E, Method 208C
Polarity:	Marked on case
Mounting Position:	Through hold for #6 screw
Mounting Torque:	5 in-lbs Max.
Weight:	5.4 grams

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted)

Symbols	Parameter	MP1005	MP101	MP102	MP104	MP106	MP108	MP1010	Unit	Conditions	
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V		
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V		
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V		
IF(AV)	Maximum Average Forward Rectified Current	10							A		TC=55°C (Note 1)
		5									TC=90°C (Note 1)
		6									TA=50°C (Note 2)

10A Bridge Rectifier

MP1005 - MP1010

Symbols	Parameter	MP1005	MP101	MP102	MP104	MP106	MP108	MP1010	Unit	Conditions
IFSM	Peak Forward Surge Current				150				A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
VF	Maximum Instantaneous Forward Voltage Drop per leg				1.1				V	IF=5A
IR	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg				5.0				μA	TA=25°C
					1.0				mA	TA=150°C
I²t	Rating for Fusing (1ms<t<8.3ms)				93				A ² S	
VISO	Isolation voltage from case to leads				2500				μA	
RθJA	Typical Thermal Resistance per leg				13				°C/W	Note 1
RθJC					5					
TJ, TSTG	Operating and Storage Temperature Range				-55 to +150				°C	

Note: 1. Unit mounted on 8.7"x8.7"x0.24" thick (22x22x0.6cm) Al. plate.

2. Unit mounted on P.C.B at 0.375" (9.5mm) lead length with 0.47"x0.47" (12x12mm) copper pads.

Typical Characteristics Curves

Fig.1- Typical Forward Current Derating Curve

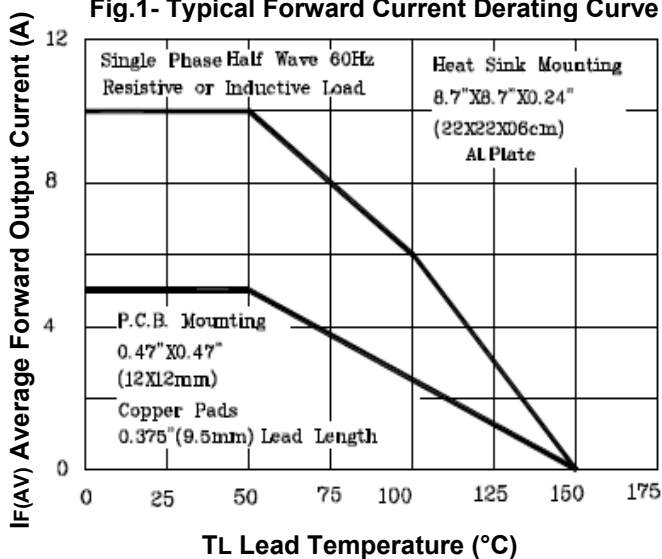
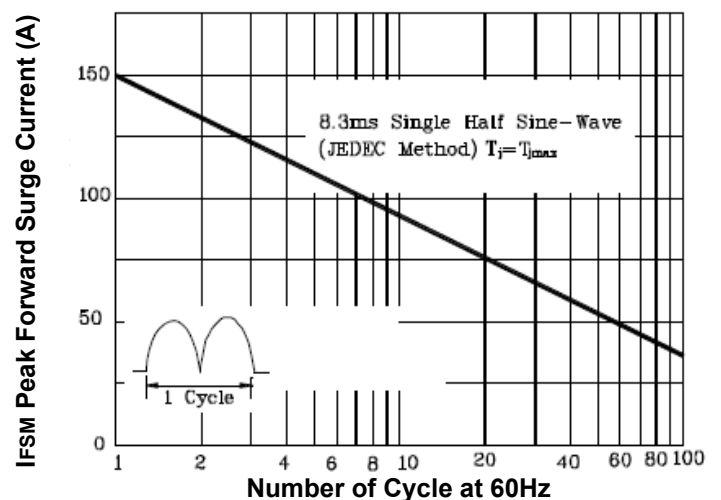


Fig.2- Max. Non-Repetitive Peak Forward Surge Current



10A Bridge Rectifier

MP1005 - MP1010

Fig.3- Typical Forward Characteristics per leg

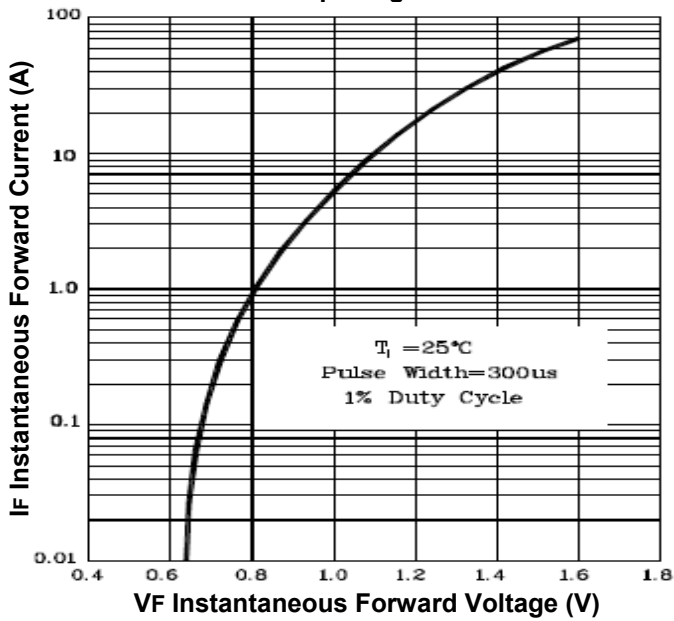


Fig.4- Typical Reverse Characteristics per leg

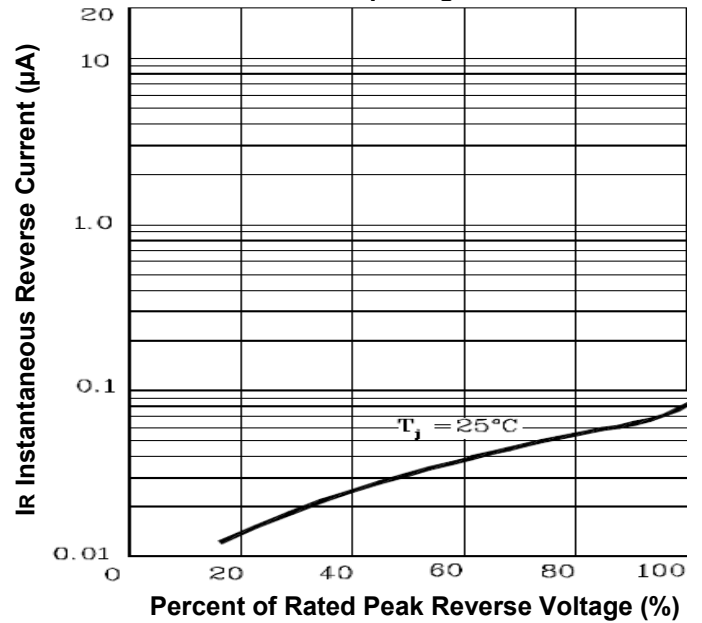
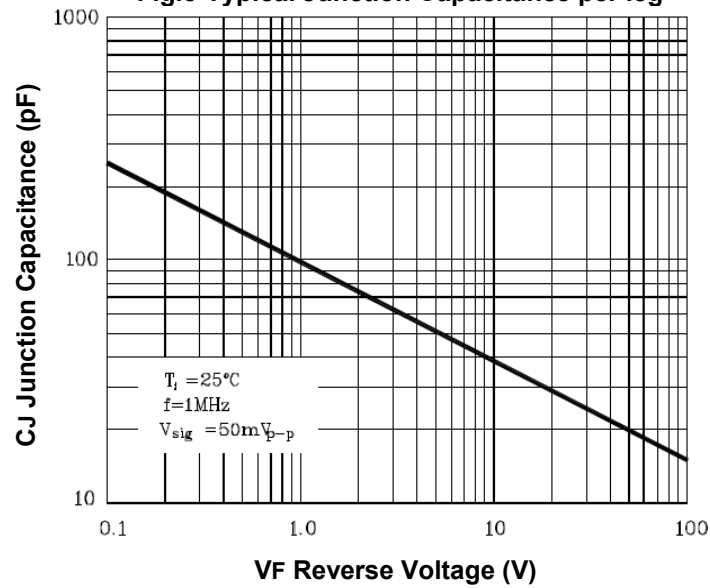


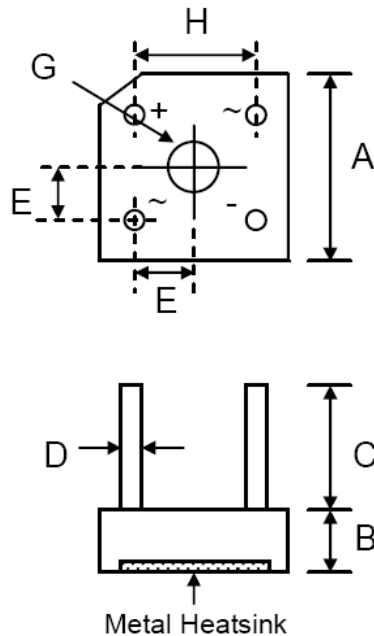
Fig.5-Typical Junction Capacitance per leg



10A Bridge Rectifier

MP1005 - MP1010

Dimensions in mm



MP-10		
Dim	Min	Max
A	18.54	19.56
B	6.35	7.60
C	19.00	—
D	1.27 Ø Typical	
E	5.33	7.37
G	Hole for #6 screw	
	3.60	4.00
H	12.20	13.80

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