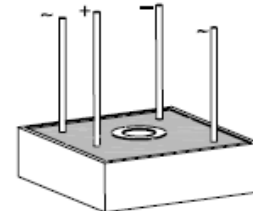


15A Single-Phase Bridge Rectifier

Features

- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Metal Case for Max. Heat Dissipation
- Case to Terminal Isolation Voltage 2500V
- This series is UL recognized under component index, File number E194718
- RoHS Compliant



**MB35W
(Metal Case)**



Mechanical Data

Case:	KBPC-W (MB35W) Metal case with wire leads
Terminals:	Plated wire leads
Polarity:	As marked on case
Mounting:	Through hole with #10 screw
Mounting Torque:	23 cm-kg (20 in-lbs) Max.
Weight:	28 grams

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

Symbol	Description	MB15 05W	MB15 1W	MB15 2W	MB15 4W	MB15 6W	MB15 8W	MB15 10W	Unit	Conditions
VRRM	Max. Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Max. RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Max. DC blocking voltage	50	100	200	400	600	800	1000	V	
Io	Average Rectified Output Current	15							A	$T_A=60^{\circ}C$
IFSM	Non-Repetitive Peak Forward Surge Current	300							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

15A Single-Phase Bridge Rectifier

MB1505W - MB1510W

Symbol	Description	MB15 05W	MB15 1W	MB15 2W	MB15 4W	MB15 6W	MB15 8W	MB15 10W	Unit	Conditions
V _{FM}	Forward Voltage per leg	1.1							V	I _o =7.5A
I _{RM}	Max. Reverse DC Current At Rated DC Blocking Voltage per leg	10							μA	T _C = 25°C
		1000							μA	T _C = 125°C
I ² t	Rating for Fusing (t<8.3ms)	373							A ² s	
C _J	Typical junction capacitance per leg	300							pF	f=1MHz V _R = 4V
R _{thjC}	Typical Thermal Resistance per leg	2.6							°C / W	Note
V _{ISO}	RMS Isolation Voltage from Case to Leads	2500							V	
T _J ,T _{STG}	Operating Junction and Storage Temperature Range	-65 to +150							°C	

Note: Thermal Resistance junction to case, mounted on heatsink.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

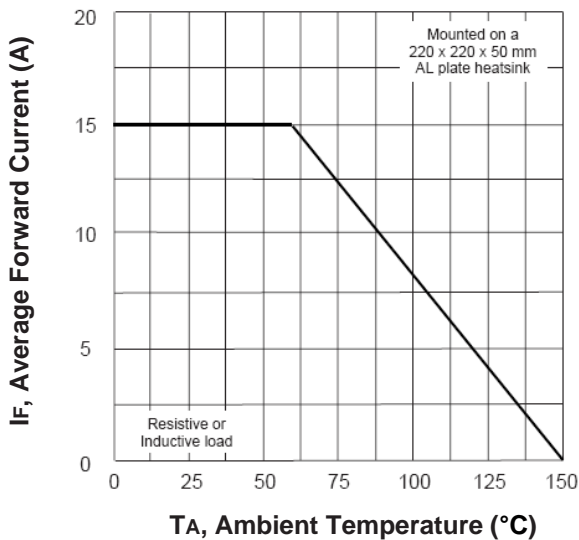
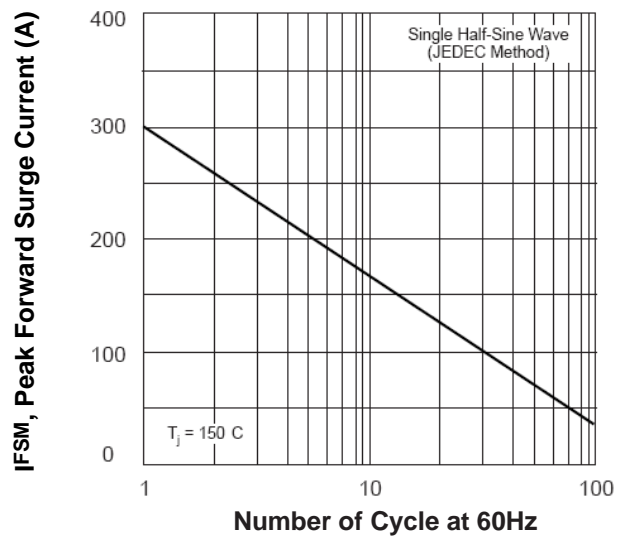


Fig.2-Max. Non-repetitive Peak Forward Surge Current Per Leg



15A Single-Phase Bridge Rectifier

MB1505W - MB1510W

Fig.3-Typical Instantaneous Forward Characteristic Per Leg

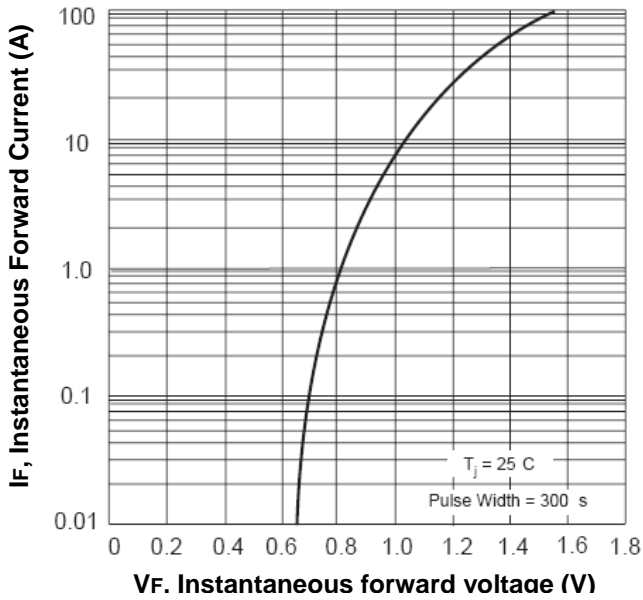


Fig.4-Typical Reverse Characteristics Per Leg

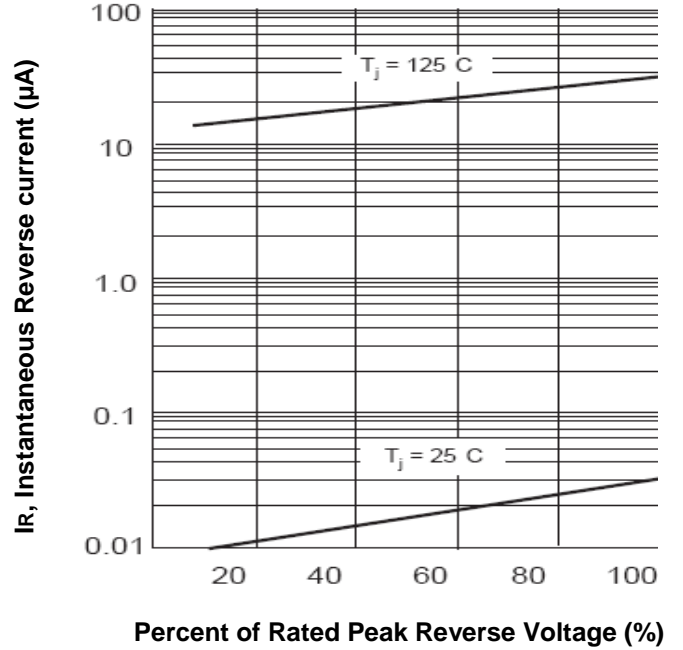
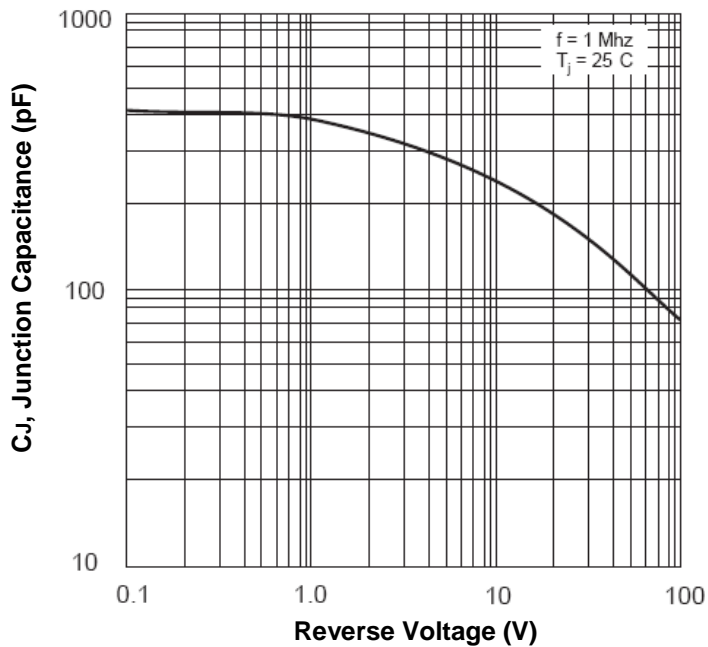


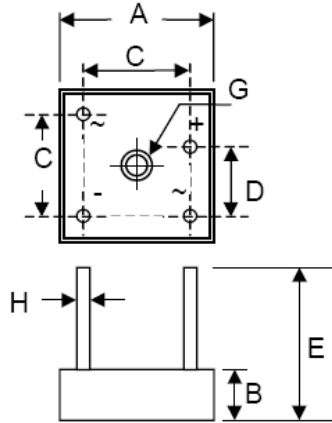
Fig.5-Typical Junction Capacitance Per Leg



15A Single-Phase Bridge Rectifier

MB1505W - MB1510W

Dimensions in inch (mm)



Dim	KBPC		KBPC-W	
	Min	Max	Min	Max
A	27.94	28.96	27.94	28.96
B	10.97	11.23	10.97	11.23
C	15.50	17.60	17.10	19.10
D	17.50	18.50	10.90	11.90
E	22.86	25.40	30.50	—
G	Hole for #10 screw, 5.08Ø Nominal			
H	6.35 Typical		0.97Ø	1.07Ø
All Dimension in mm				

KBPC-W (MB35W)

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