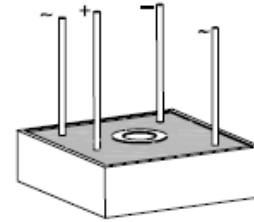


25A Single-Phase Bridge Rectifier

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



**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°C)

Symbol	Description	MB25 05W	MB25 1W	MB25 2W	MB25 4W	MB25 6W	MB25 8W	MB25 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	
I_o	Average Rectified Output Current	25							A	T _A =60°C
I_{FSM}	Non-Repetitive Peak Forward Surge Current	300							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

25A Single-Phase Bridge Rectifier

MB2505W – MB2510W

Symbol	Description	MB25 05W	MB25 1W	MB25 2W	MB25 4W	MB25 6W	MB25 8W	MB25 10W	Unit	Conditions
V _{FM}	Forward Voltage per leg	1.1							V	I _o =12.5A
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

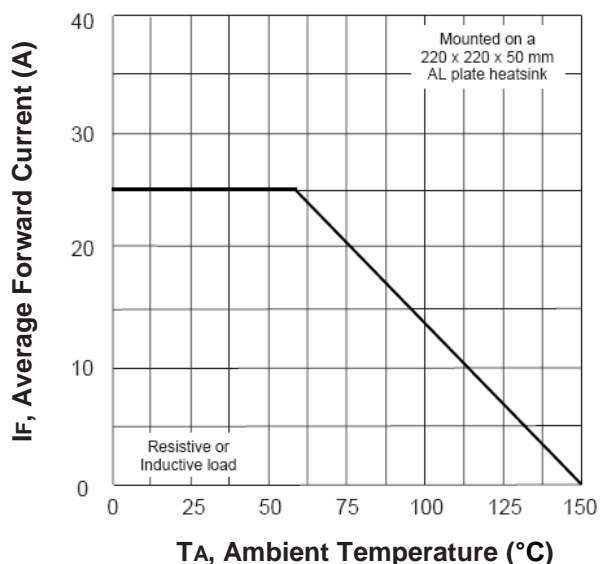
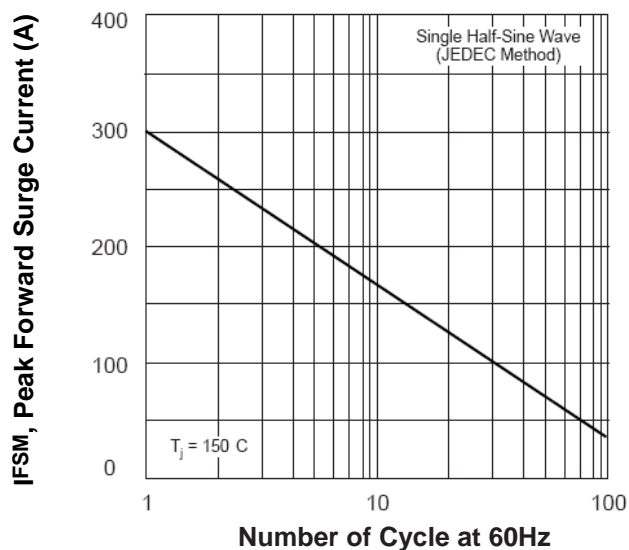


Fig.2-Max. Non-repetitive Peak Forward Surge Current Per Leg



25A Single-Phase Bridge Rectifier

MB2505W – MB2510W

Fig.3-Typical Instantaneous Forward Characteristic Per Leg

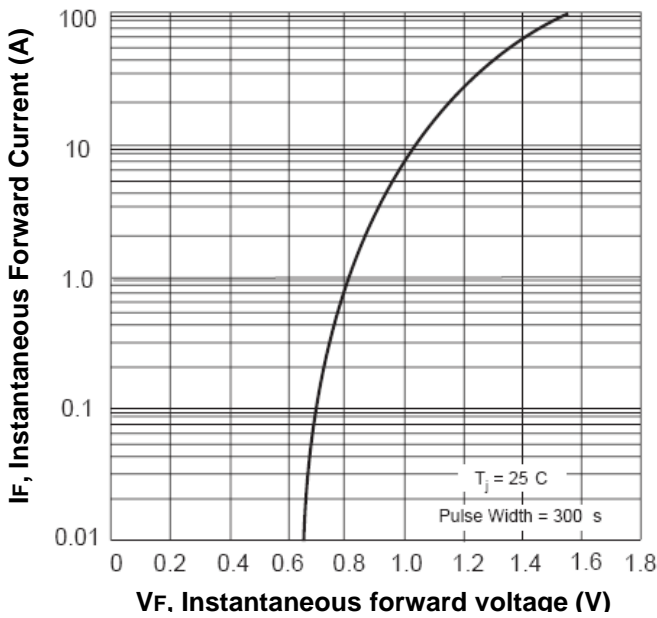


Fig.4-Typical Reverse Characteristics Per Leg

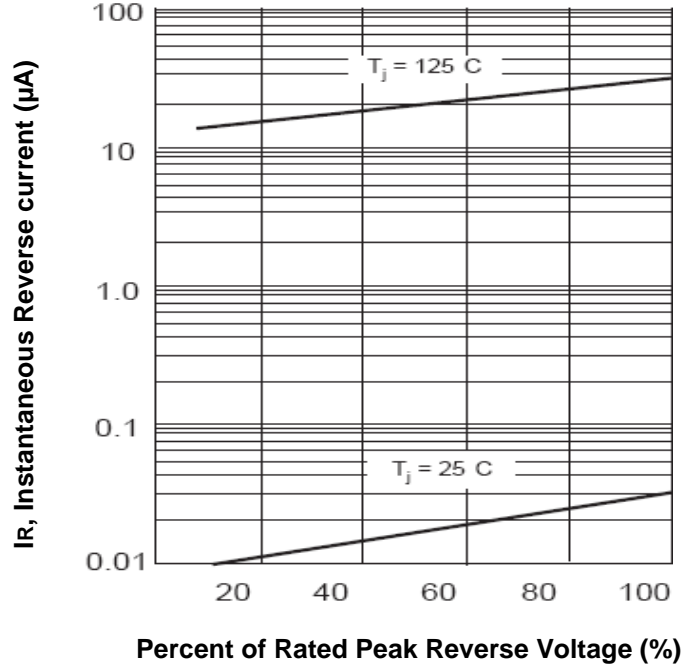
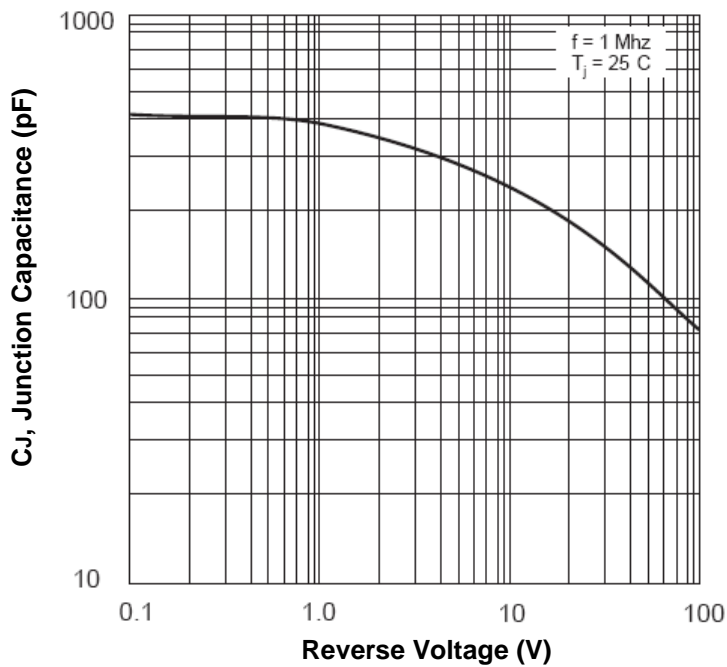


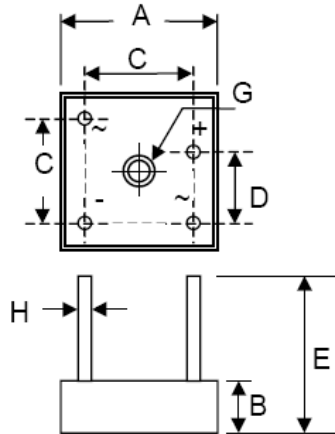
Fig.5-Typical Junction Capacitance Per Leg



25A Single-Phase Bridge Rectifier

MB2505W – MB2510W

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)

How to contact us

USA HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800)-TAITRON (800)-824-8766 (661)-257-6060

Fax: (800)-TAITFAX (800)-824-8329 (661)-257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS INCORPORATED TAIWAN BRANCH

6F., NO.190, SEC. 2, ZHONGXING RD., XINDIAN DIST., NEW TAIPEI CITY 23146, TAIWAN R.O.C.

Tel: 886-2-2913-6238

Fax: 886-2-2913-6239

TAITRON COMPONENT TECHNOLOG SHANGHAI CORPORATION

SUITE 1503, METROBANK PLAZA, 1160 WEST YAN'AN ROAD, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-2302-5027