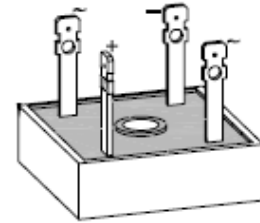


35A Single-Phase Glass Passivated Bridge Rectifier

Features

- Glass passivated chip junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Metal Case for Max. Heat Dissipation
- Case to Terminal Isolation Voltage 2500V
- RoHS Compliant



**MB35
(Metal Case)**



Mechanical Data

Case:	KBPC (MB35) Metal case with faston lugs
Terminals:	Plated faston lugs
Polarity:	As marked on case
Mounting:	Through hole with #10 screw
Mounting Torque:	23 cm-kG (20 in-lbs) Max.
Weight:	30 grams

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

Symbol	Description	MB35 05G	MB35 1G	MB35 2G	MB35 4G	MB35 6G	MB35 8G	MB35 10G	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	35							A	$T_A=60^{\circ}\text{C}$
IFSM	Non-Repetitive Peak Forward Surge Current	300							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

35A Single-Phase Glass Passivated Bridge Rectifier

MB3505G – MB3510G

Symbol	Description	MB35 05G	MB35 1G	MB35 2G	MB35 4G	MB35 6G	MB35 8G	MB35 10G	Unit	Conditions
V_{FM}	Forward Voltage per leg	1.1							V	I _o =17.5A
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
I²t	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	2.1							°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

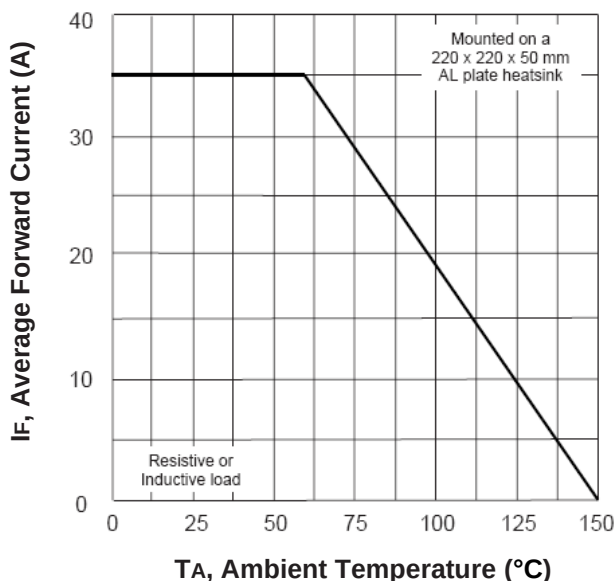
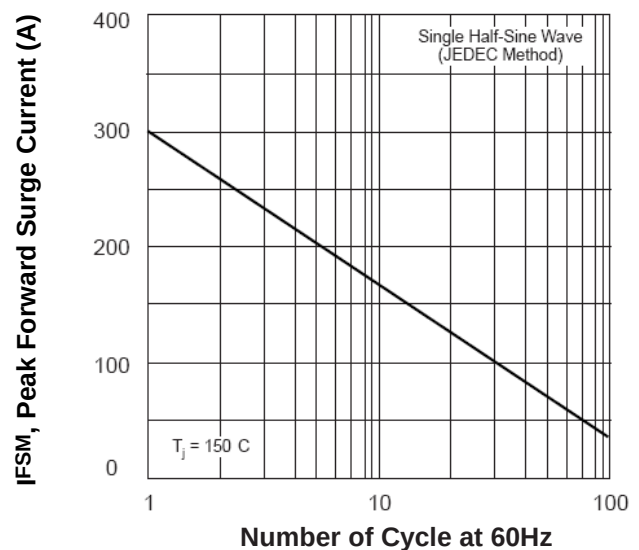


Fig.2-Max. Non-repetitive Peak Forward Surge Current Per Leg



35A Single-Phase Glass Passivated Bridge Rectifier

MB3505G – MB3510G

Fig.3-Typical Instantaneous Forward Characteristic Per Leg

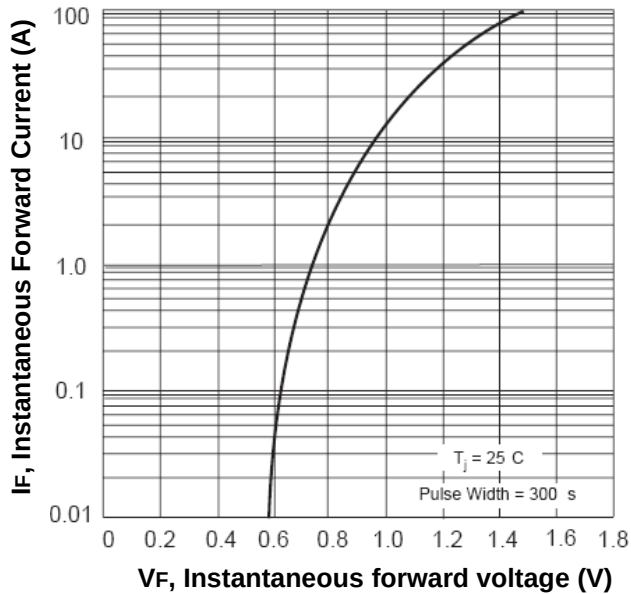


Fig.4-Typical Reverse Characteristics Per Leg

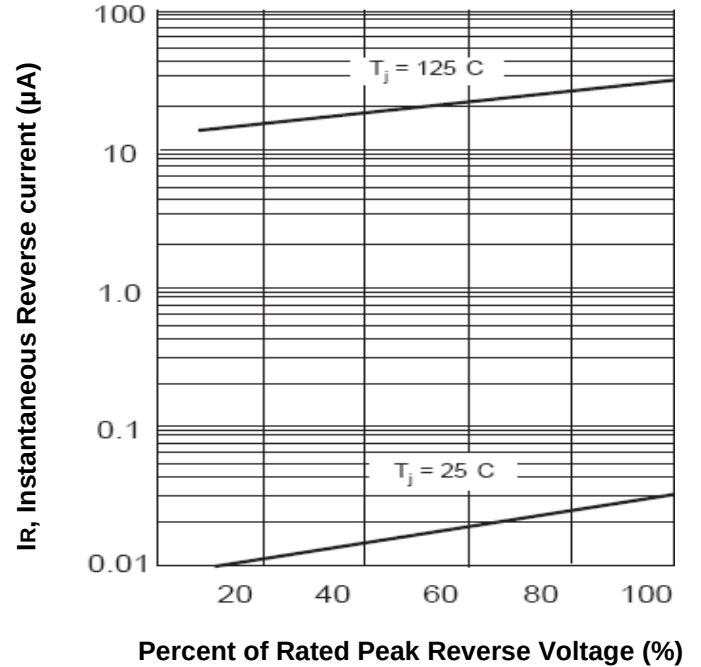
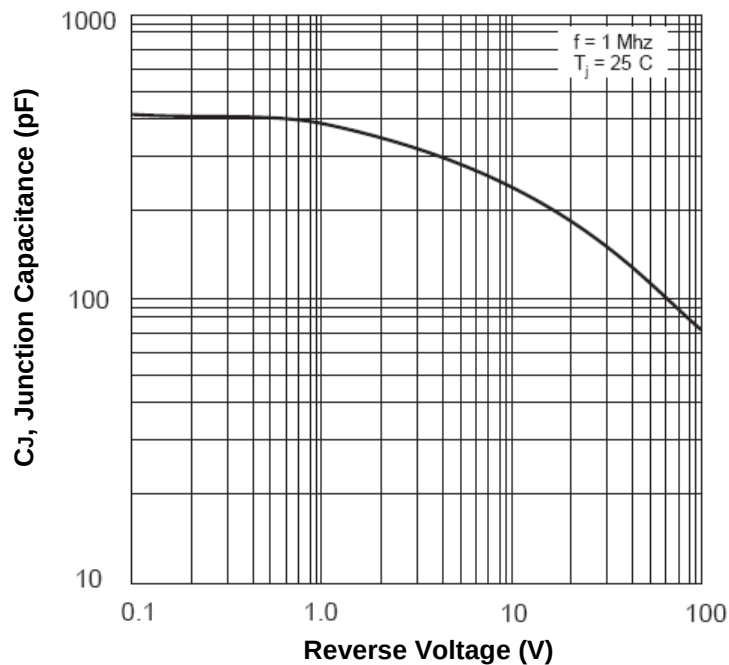


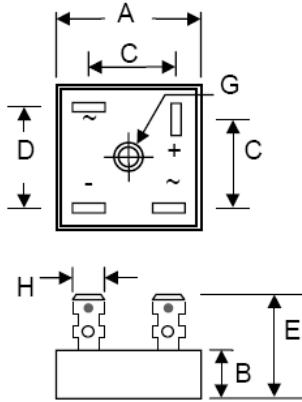
Fig.5-Typical Junction Capacitance Per Leg



35A Single-Phase Glass Passivated Bridge Rectifier

MB3505G – MB3510G

Dimensions in inch (mm)



	KBPC		KBPC-W	
Dim	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 (MB35)

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