



Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Glass Passivated Chip Junction
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)

15 Amp Super Fast Recovery Bridge Rectifiers 600 Volts

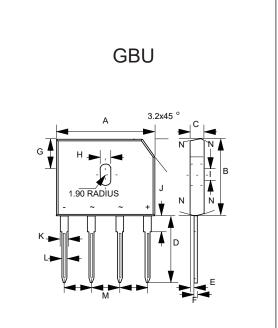
Maximum Ratings @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V _{RMS}	420	V
Average Rectified Forward Current @ T _C =100°C (With Heatsink)		15	^
Average Rectified Forward Current @ T _a =25°C (Without Heatsink)	I _{F(AV)}	2.5	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	1	180	^
Non-Repetitive Peak Surge Current @ 1ms Square Wave	I _{FSM}	360	Α
l²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	134	A ² s
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.5	KV

Internal Structure

Simplified Outline	Graphic Symbol
MCC 91 EGBU 1506 - AC +	

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.860	0.880	21.80	22.30		
В	0.720	0.740	18.30	18.80		
С	0.130	0.142	3.30	3.60		
D	0.690	0.717	17.50	18.20		
Е	0.030	0.039	0.76	1.00		
F	0.018	0.024	0.46	0.60		
G	0.290	0.310	7.40	7.90		
Н	0.140	0.160	3.50	4.10		
ı	0.065	0.085	1.65	2.16		
J	0.060	0.096	1.52	2.45		
K	0.077	0.098	1.95	2.50		
L	0.040	0.050	1.02	1.27		
М	0.190	0.210	4.83	5.33		
N	N 7.0° TYPICAL					



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _J	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		2		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		20		°C/W

Note:

Mechanical Data

Recommended Mounting Torque: 5 in-lbs

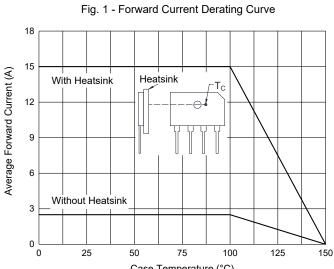
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =7.5A;T _J =25°C			2.0	V
Reverse Current	I _R	at Rated $V_R;T_J$ =25°C at Rated $V_R;T_J$ =125°C			5 100	uA
Reverse Recovery Time	t _{rr}	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A;T _J =25°C			35	nS
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		65		рF

^{1.}Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.



Curve Characteristics



Case Temperature (°C)

Current 200 Peak Forward Surge Current (A) 150 100 8.3 ms Single Half Sine-Wave 0 10 100 Number of Cycles at 60 Hz

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

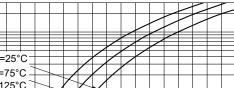
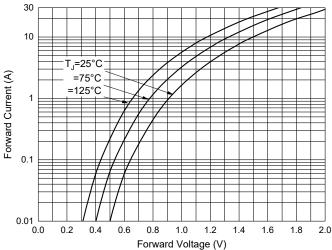


Fig. 3 - Typical Forward Characteristics

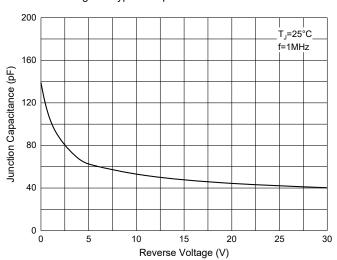


100 T_J=125°C 10 Reverse Current (µA) T₁=75°C 0.1 T,=25°C 0.01 - 20 100

Percent of Rated Peak Reverse Voltage (%)

Fig. 4 - Typical Reverse Leakage Characteristics

Fig. 5 - Typical Capacitance Characteristics





Ordering Information

Device	Packing		
Part Number-BP	Bulk:20pcs/Tube,1Kpcs/Box,2Kpcs/Carton		

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

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