



Features

• Halogen Free Available Upon Request By Adding Suffix "-HF"

• Glass Passivated Chip Junction

FI

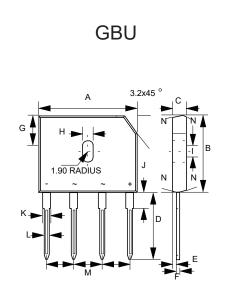
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

E502650

		Value							
Parameter	Symbol	GBU 6A	GBU 6B	GBU 6D	GBU 6G	GBU 6J	GBU 6K	GBU 6M	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{R}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Forward Current @ T _C =100°C	I _{F(AV)}	6					A		
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I=	175							А
Non-Repetitive Peak Surge Current @ 1ms Square Wave	FSM	I _{FSM} 350							
I²t Rating for Fusing @1ms≤t≤8.3ms	l ² t	127					A²s		
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}	2.5					KV		

6 Amp **Bridge Rectifier** 50 to 1000 Volts



DIMENSIONS

MIN

0.76

MM

MAX

18.80

3.60

18.20

1.00

0.60

7.90 4.10

2.16

2.45

2.50

1.27

5.33

NOTE

INCHES

MAX

0.720 0.740 18.30

0.130 0.142 3.30

0.690 0.717 17.50

0.030 0.039

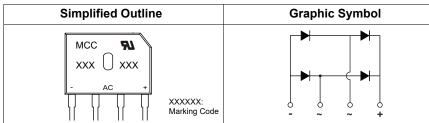
0.860 0.880 21.80 22.30

MIN

Marking Code

Part Number	Marking Code
GBU6A	GBU6A
GBU6B	GBU6B
GBU6D	GBU6D
GBU6G	GBU6G
GBU6J	GBU6J
GBU6K	GBU6K
GBU6M	GBU6M

Internal Structure



0.018 0.024 0.46 0.290 0.310 7.40 G Н 0.140 0.160 3.50 0.065 0.085 T 1.65 0.060 0.096 1.52 J 0.098 1.95 Κ 0.077 0.040 0.050 1.02 1 0.190 0.210 4.83 Μ 7.0° TYPICAL Ν

DIM

А В

С

D Е

F

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



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	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		2.2		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		25		°C/W

Note:

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

Mechanical Data

Recommended Mounting Torque: 5in·lbs

Electrical Characteristics @ 25°C Unless Otherwise Specified(Per Diode)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =3A;T _J =25°C			1.0	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 200	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		50		pF



Curve Characteristics

•M•C•C

Fig. 1 - Forward Current Derating Curve

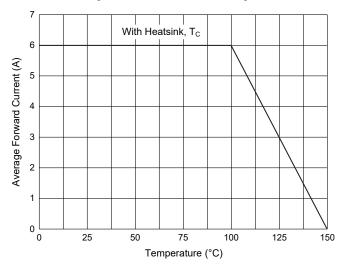


Fig. 3 - Typical Forward Characteristics

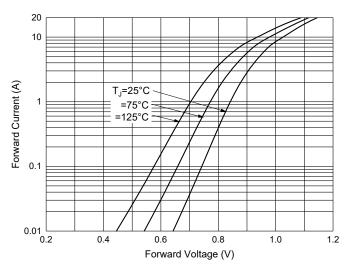
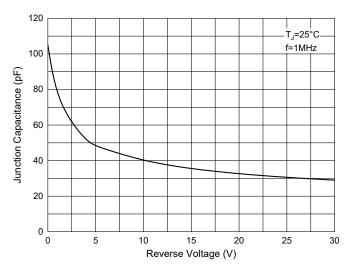


Fig. 5 - Typical Capacitance Characteristics



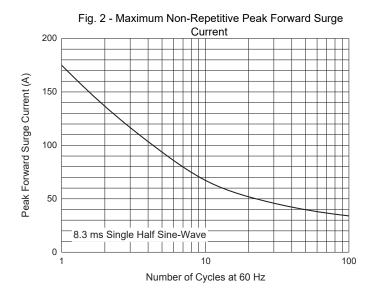
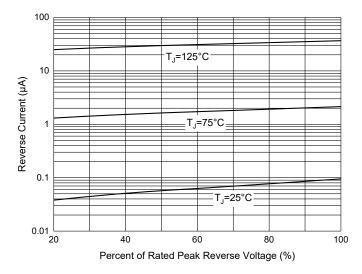


Fig. 4 - Typical Reverse Leakage Characteristics





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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