

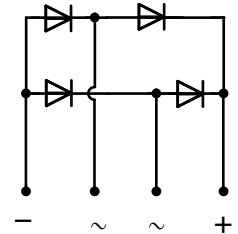
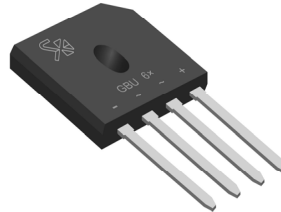


GBU6A THRU GBU6M

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50 to 1000** Volts

FORWARD CURRENT - **6.0** Amperes



FEATURES

- Polarity: As marked on body
- Surge overload rating -175 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has U/L
The flammability classification 94V-0
- Mounting position: Any
- Weight: 0.138 ounces , 3.9 grams

GBU

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @ T _c =100°C (without heatsink)	I _(AV)	6.0 2.8							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	175							A
Maximum Forward Voltage at 3.0A DC	V _F	1.0							V
Maximum DC Reverse Current J=25°C at Rated DC Blocking Voltage J=125°C	I _R	5.0 500							uA
I ² t Rating for Fusing (t<8.3ms)	I ² t	127							A ² s
Typical Junction Capacitance Per Element (Note1)	C _J	50							pF
Typical Thermal Resistance (Note2)	R _{θJC}	2.5							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC. 2.Device mounted on 150mm*150mm*1.6mm Cu Plate Heatsink.



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FIG.1-FORWARD CURRENT DERATING CURVE

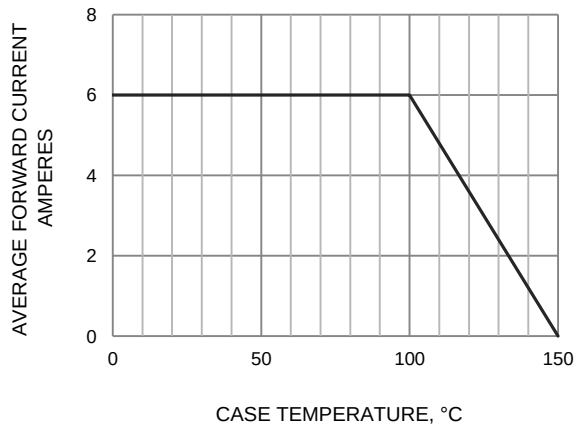


FIG.2-MAXIMUM FORWARD SURGE CURRENT

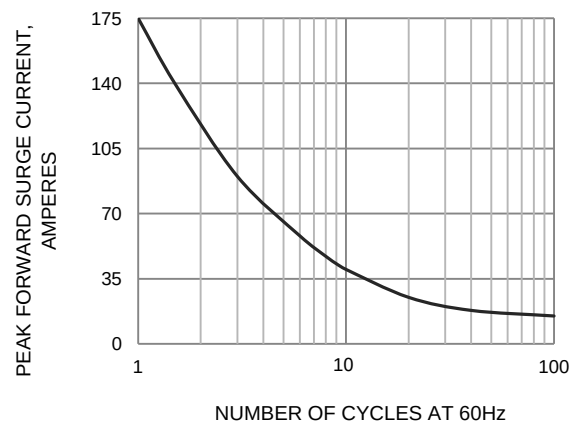


FIG.3-TYPICAL JUNCTION CAPACITANCE

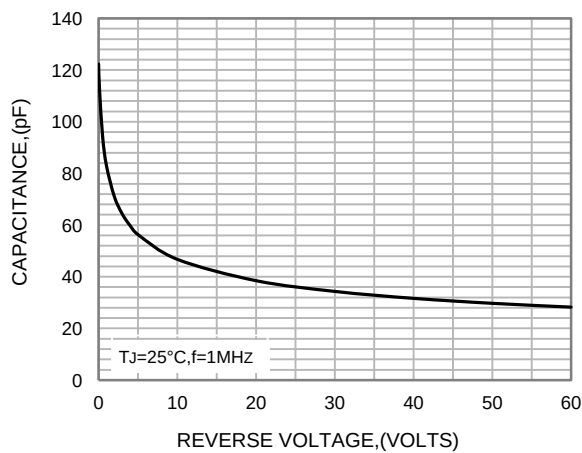


FIG.4-TYPICAL FORWARD CHARACTERISTICS

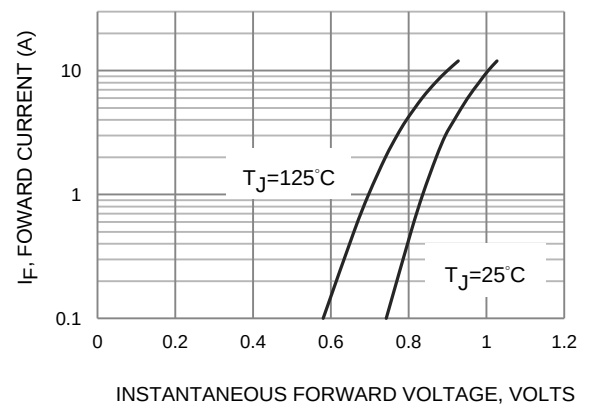
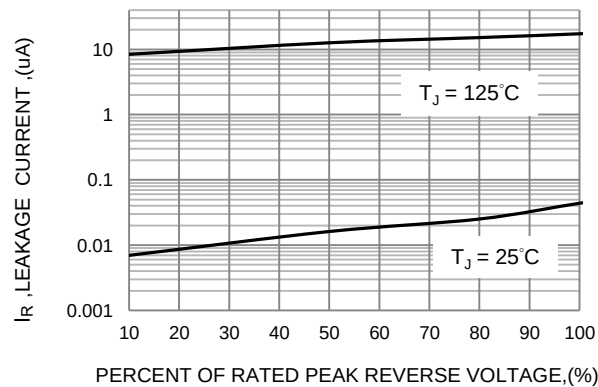


FIG.5-TYPICAL REVERSE CHARACTERISTICS

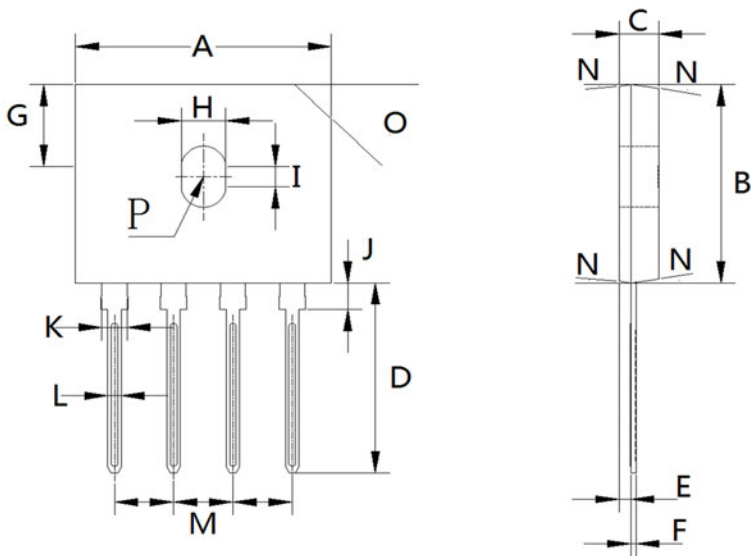




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PACKAGE OUTLINE

GBU



Marking

Type number	Marking code
GBU6A	GBU6A
GBU6B	GBU6B
GBU6D	GBU6D
GBU6G	GBU6G
GBU6J	GBU6J
GBU6K	GBU6K
GBU6M	GBU6M

GBU mechanical data

UNIT		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
mm	max	22.30	18.80	3.56	18.00	1.00	0.56	7.90	4.10	2.16	2.75	2.35	1.27	5.33	7.0° TYPICAL	3.2X45°	1.90 RADIUS
	min	21.80	18.30	3.30	17.50	0.76	0.46	7.40	3.50	1.65	1.85	1.95	1.02	4.83			
mil	max	878	740	140	709	39	22	311	161	85	108	93	50	210		126°45°	75 RADIUS
	min	858	720	130	689	30	18	291	138	65	73	77	40	190			