

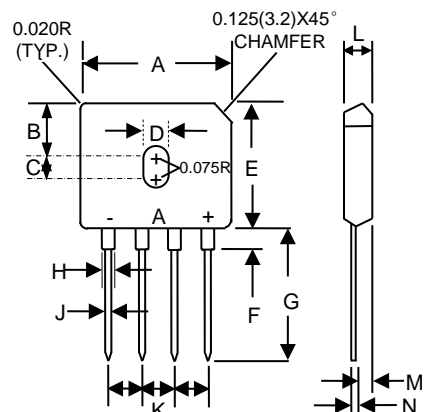
# GBU25A THRU GBU25M

## Glass Passivated Single Phase Bridge Rectifiers

### Features

- \* Plastic package has underwriters laboratory flammability classification 94V-0
- \* Ideal for printed circuit boards
- \* Glass passivated chip junction
- \* High Surge Current Capability
- \* High temperature soldering guaranteed 270°C/10 seconds, 0.375(9.5mm) lead length

**RoHS**  
COMPLIANT



### Mechanical Data

- \* Case: Molded plastic body over passivated junctions
- \* Terminals: Plated leads solderable per J-STD-002
- \* Polarity: Polarity as marked on the body
- \* Mounting Position: Any

GBU				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.850	0.880	21.80	22.30
B	0.290	0.310	7.40	7.90
C	0.065	0.085	1.65	2.16
D	0.140	0.160	3.50	4.10
E	0.720	0.740	18.30	18.80
F	0.079	0.094	2.00	2.40
G	0.690	0.710	17.50	18.00
H	0.075	0.090	1.91	2.28
J	0.040	0.050	1.02	1.27
K	0.190	0.210	4.83	5.33
L	0.130	0.140	3.30	3.56
M	0.075	0.085	1.90	2.16
N	0.018	0.022	0.46	0.56

### Maximum Ratings and Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Type Number		Symbols	GBU 25A	GBU 25B	GBU 25D	GBU 25G	GBU 25J	GBU 25K	GBU 25M	Unit
Maximum Repetitive Peak Reverse Voltage		V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward rectified current (Note1)		I <sub>F(AV)</sub>	25							A
Peak Forward Surge Current single half sine-wave superimposed on rated load		I <sub>FSM</sub>	350							A
Maximum instantaneous forward voltage	@12.5A	V <sub>F</sub>	1.0							V
	@25A		1.1							
Maximum Reverse Current at Rated D.C Blocking Voltage	@ T <sub>J</sub> =25℃	I <sub>R</sub>	5.0							μ A
	@ T <sub>J</sub> =125℃		500							
Typical junction capacitance per leg (Note2)		C <sub>J</sub>	70							pF
Rating for fusing (t<8.3ms)		I <sup>2</sup> t	508							A <sup>2</sup> sec
Typical thermal resistance	R <sub>θJA</sub>	20							℃/W	
	R <sub>θJC</sub>	2.2								
Operating and Storage Temperature Range		T <sub>J</sub> / T <sub>STG</sub>	-55 to +150							℃

Note: 1. Device mounted on 100mm\*100mm\*1.6mm cu plate heatsink.

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

### Ratings and Characteristic Curves

FIG.1-MAXIMUM FORWARD SURGE CURRENT

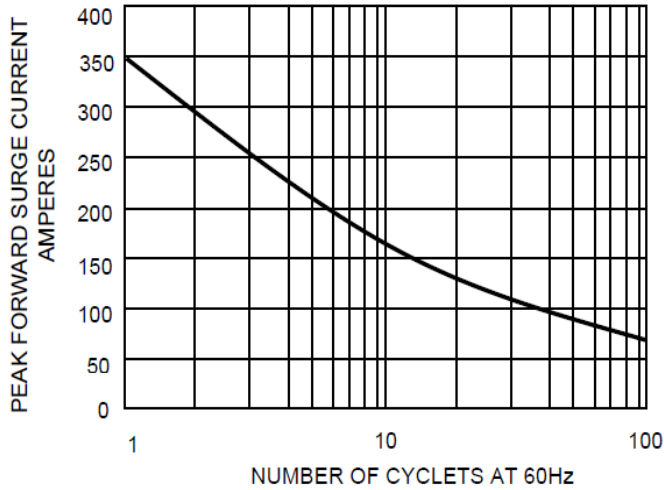


FIG.2- DERATING CURVE  
OUTPUT RECTIFIED CURRENT

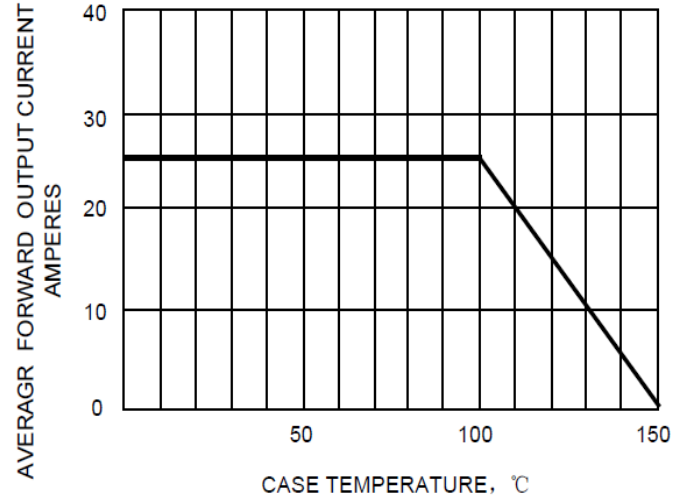


FIG.3-TYPICAL FORWARD CHARACTERISTICS

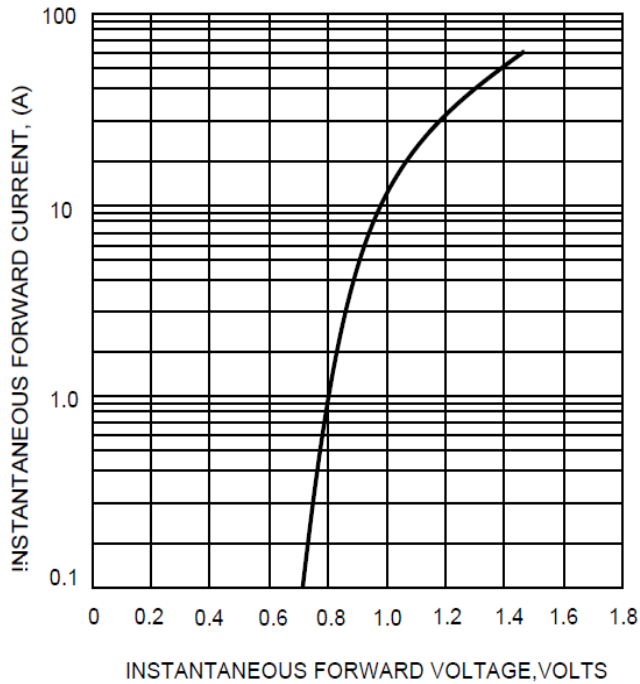
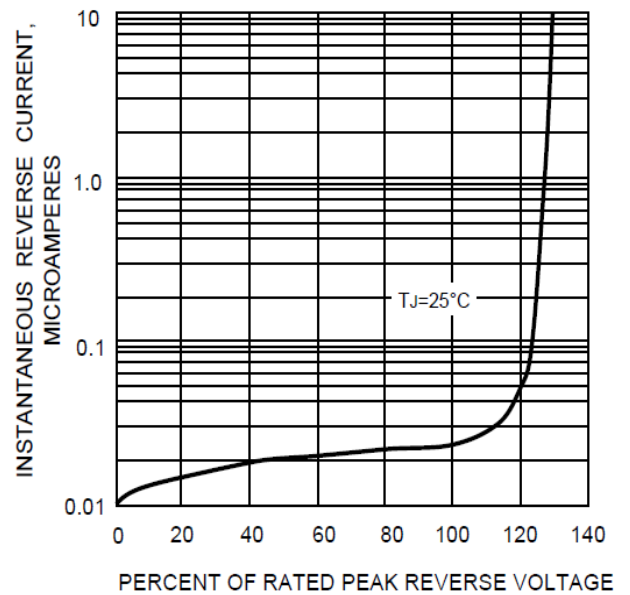


FIG.4-TYPICAL REVERSE CHARACTERISTICS





## GBU25A THRU GBU25M

### *Glass Passivated Single Phase Bridge Rectifiers*

#### Ordering Information

Part No.	Package	Packing Code	Packing
GBU25A THRU GBU25M	GBU	T	20pcs/Tube

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