

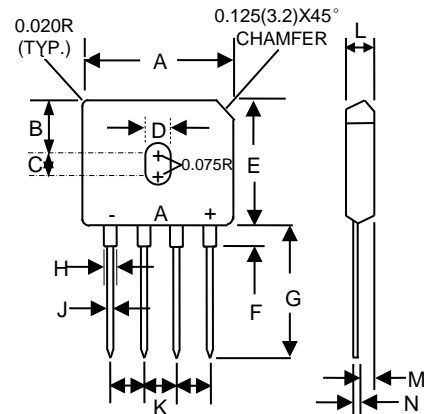
GBU25A THRU GBU25M

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_A=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 _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current (Note1)		I _{F(AV)}	25							A
Peak Forward Surge Current single half sine-wave superimposed on rated load		I _{FSM}	350							A
Maximum instantaneous forward voltage	@12.5A	V _F	1.0							V
	@25A		1.1							
Maximum Reverse Current at Rated D.C Blocking Voltage	@ T _J =25℃	I _R	5.0							μ A
	@ T _J =125℃		500							
Typical junction capacitance per leg (Note2)		C _J	70							pF
Rating for fusing (t<8.3ms)		I ² t	508							A ² sec
Typical thermal resistance		R _{θJA}	20							℃/W
		R _{θJC}	2.2							
Operating and Storage Temperature Range		T _J / T _{STG}	-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

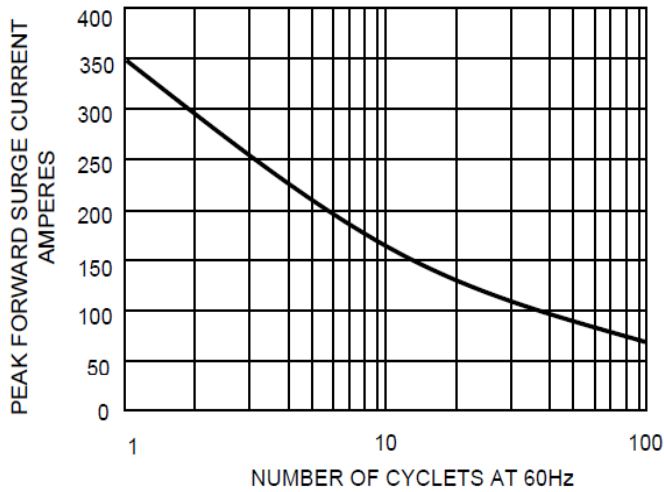


FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

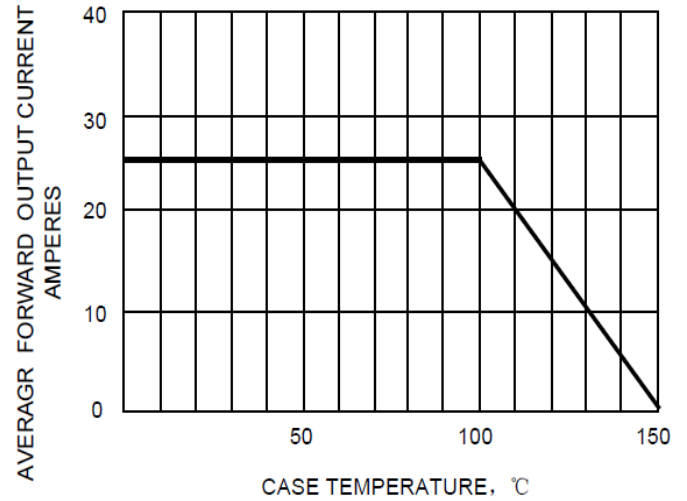


FIG.3-TYPICAL FORWARD CHARACTERISTICS

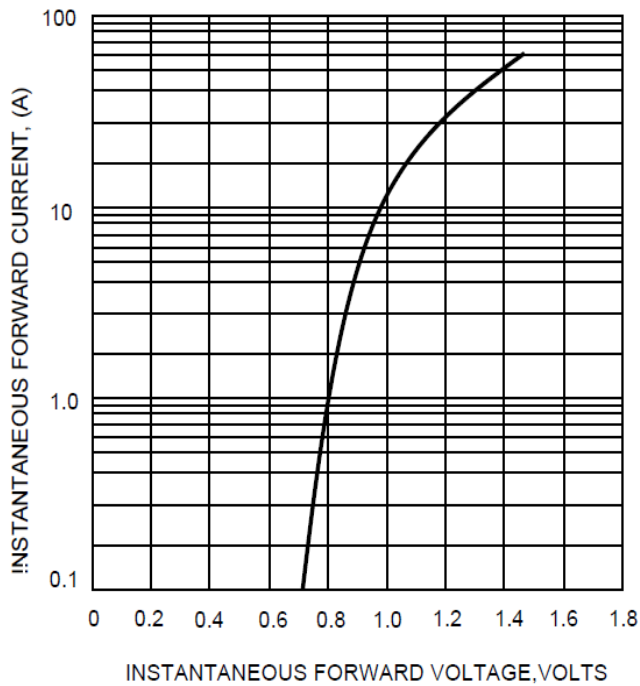
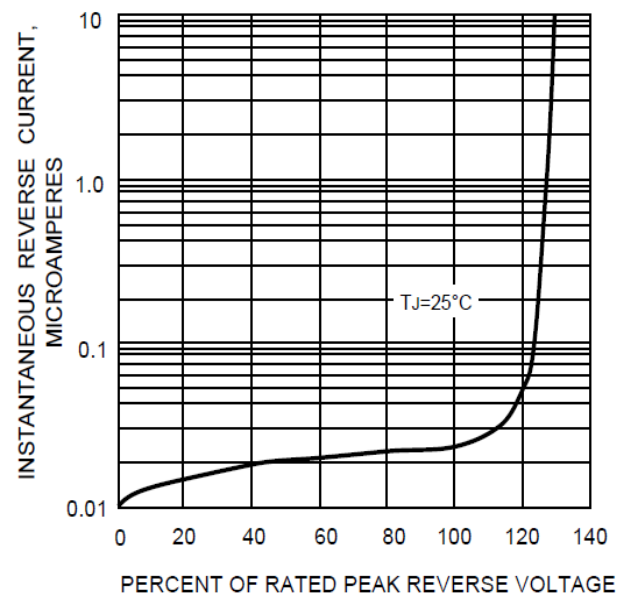


FIG.4-TYPICAL REVERSE CHARACTERISTICS





GBU25A THRU GBU25M

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Ordering Information

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

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