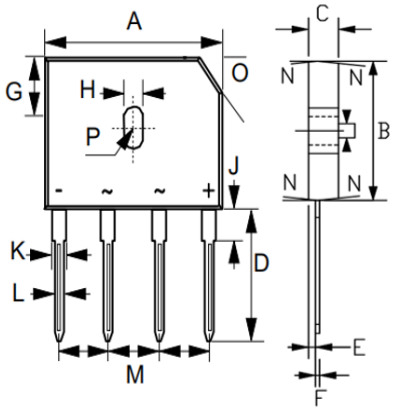
EGBU606

Single Phase 6.0Amp Glass passivated Bridge Rectifiers

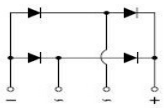
Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250℃/10 seconds at terminals

GBU



GBU		
DIM	MIN	MAX
A	21.80	22.30
B	18.30	18.80
C	3.30	3.60
D	17.50	18.00
E	0.76	1.00
F	0.45	0.55
G	7.40	7.90
H	3.50	4.10
I	1.65	2.16
J	2.25	2.75
K	2.00	2.40
L	1.00	1.30
M	4.83	5.33
N	7.0° TYPICAL	
O	(3.2) x 45°	
P	1.90 PADIUS	
All dimension in millimeter		



Mechanical Data

Case : Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	EGBU 606	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC blocking voltage	V_{DC}	600	V
Maximum average forward rectified current with heatsink	$I_{(AV)}$	6.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	175.0	A
Rating for fusing (t=8.3ms, Ta=25℃)	I^2t	127.1	A^2s
Maximum instantaneous forward voltage at 6.0A	V_F	1.7	V
Maximum DC reverse current T_A =25℃ at rated DC blocking voltage T_A=125℃	I_R	5.0 500	u A
Maximum reverse recovery time (Note 4)	Trr	40	ns
Typical thermal resistance	R_{qJA}	31.0	°C/W
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150	°C

Note:
1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2.Mounted on glass epoxy PC board with 1.3mm² solder pad.
3.Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.
4.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

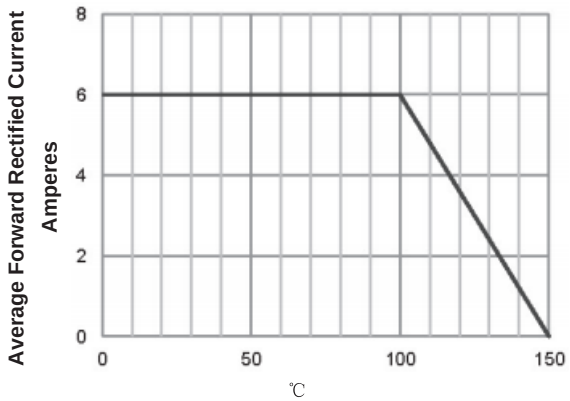


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

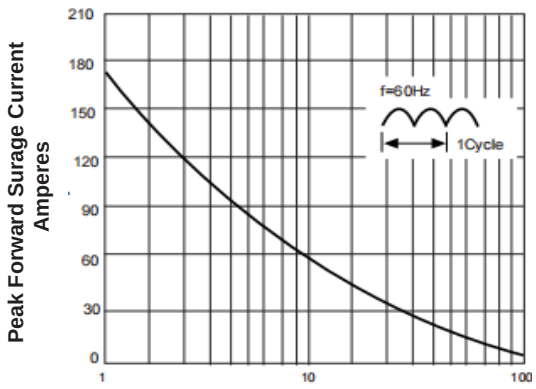


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

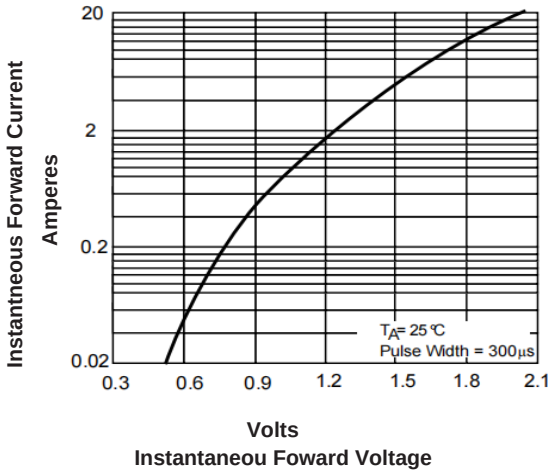


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS