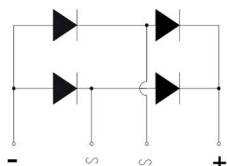
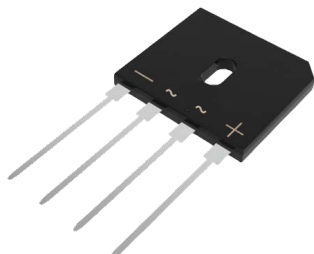


Low VF Bridge Rectifiers

GBU



Features

- Glass Passivated Chip Junction
- Low IRRM
- Ultra Low VF
- High VRRM

Benefits

- Case: GBU
- Terminals: Solderable Per MIL-STD-750
- Reduced power loss and switching transistor
- Reduced snubbing

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	GBU3506L	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	600	V
Maximum RMS voltage	VRMS	420	V
Maximum DC Blocking Voltage	VDC	600	V
Average Rectified Output Current	I _o	35	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	370	A
I ² t rating for fusing (1ms< t < 8.3 ms)	I ² t	568	A ² S
Maximum Forward Voltage at 17.5A	V _F	0.96	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I _R	5 500	μA
Typical Thermal Resistance	R _{JA}	26	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

RATINGS AND CHARACTERISTICS CURVES ($T_A = 25^\circ\text{C}$ unless otherwise noted)

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

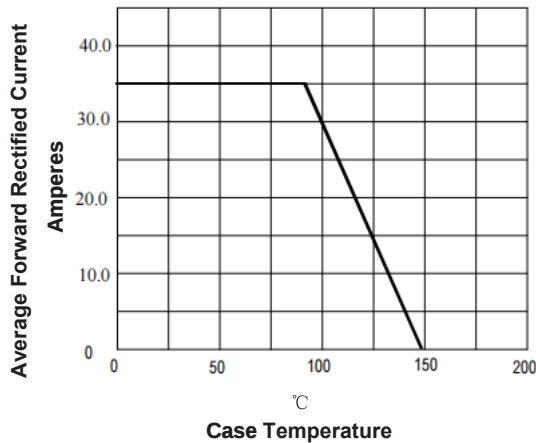


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

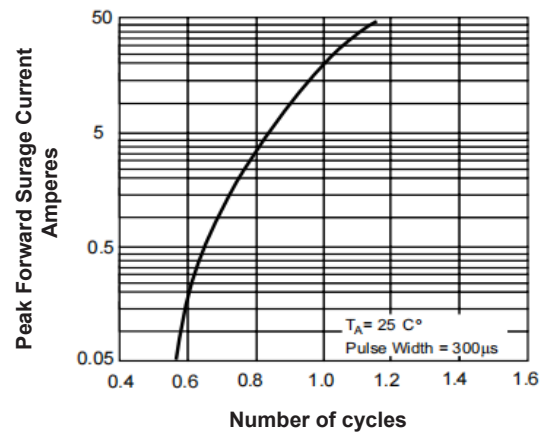


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

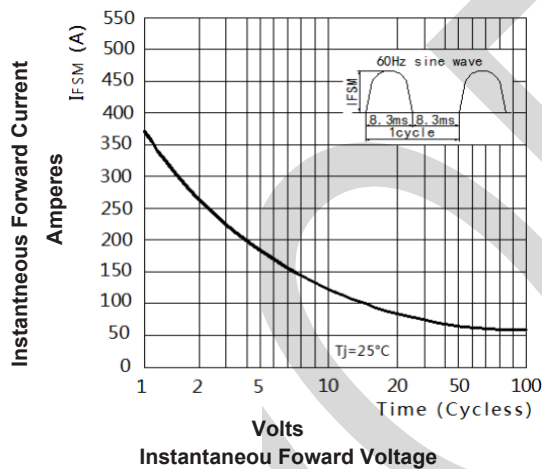
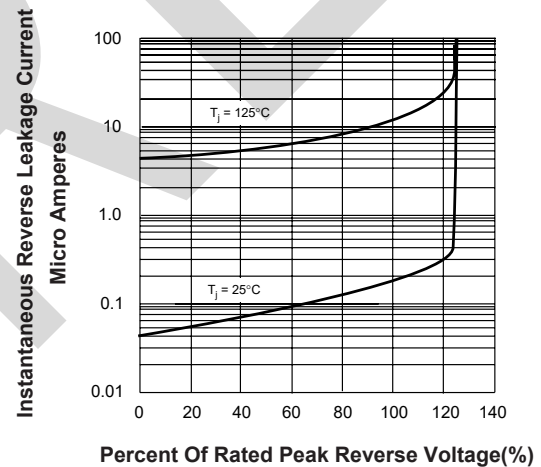
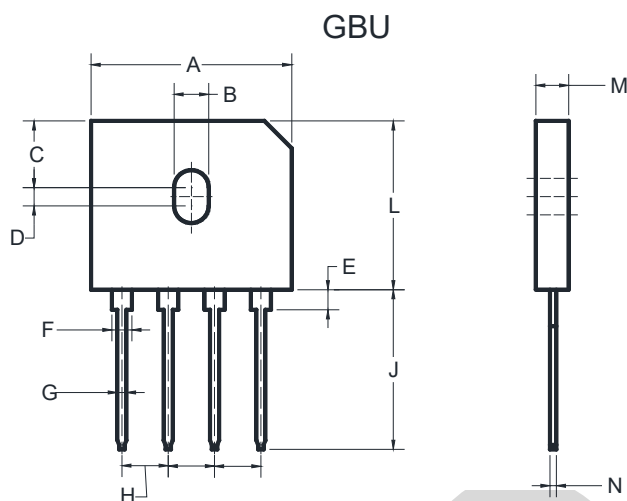


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



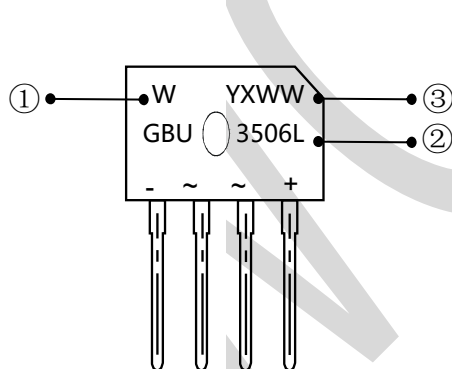
PACKAGE OUTLINE DIMENSIONS



Dimensions in millimeters

GBU		
Dim	Min	Max
A	21.70	22.50
B	3.40	4.10
C	7.40	8.00
D	1.65	2.26
E	2.25	2.85
F	2.05	2.4
G	1.02	1.37
H	4.83	5.43
J	17.0	18.6
L	18.3	18.9
M	3.30	3.66
N	0.46	0.66

Marking Information



- ① W : Company's trademark
- ② Product model : GBU3506L
- ③ PDC information :

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)