Shenzhen World Industrial Co.,Ltd.

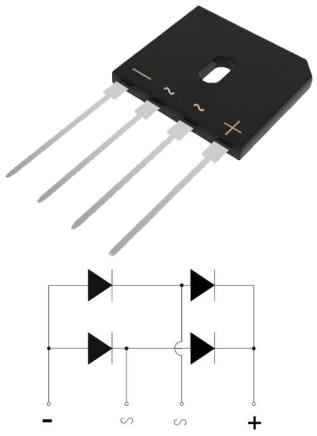
GBU2506L

01-Jul-2026

Low VF Bridge Rectifiers

VF:0.66V@1A/125°C

GBU



Features

- Glass Passivated Chip Junction
- Low I_{RRM}
- Low V_F
- High V_{RRM}

Applications

- Switching Power Supply
- Home Appliances, Office Devices
- Industrial Auto-equipments

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	GBU2506L	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
Average Rectified Output Current	I_o	25.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	300	A
I^2t rating for fusing (8.3ms)	I^2t	373.5	A^2S
Maximum Forward Voltage at 12.5 A	V_F	0.95	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I_R	10 500	μA
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C
Typical thermal resistance (Note 1)	$R_{\theta JC}$	3.0	°C/W
	$R_{\theta JA}$	22	
Note: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.			

Ratings And Characteristics Curves (TA = 25 ˚C unless otherwise noted)

Fig.1 Current Derating, Case

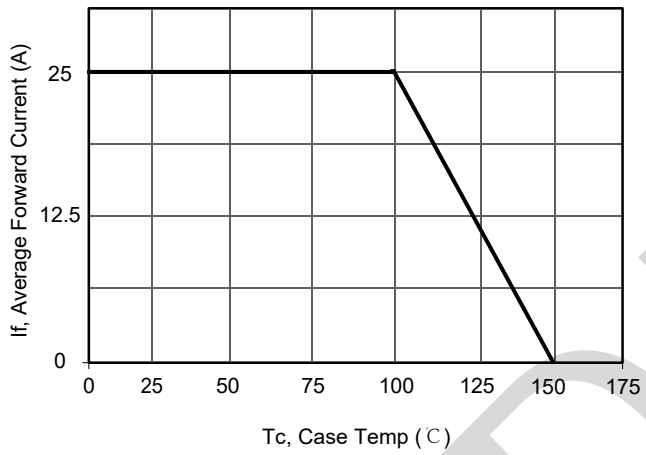


Fig.2 Maximum Non-Repetitive Peak Forward Surage Current

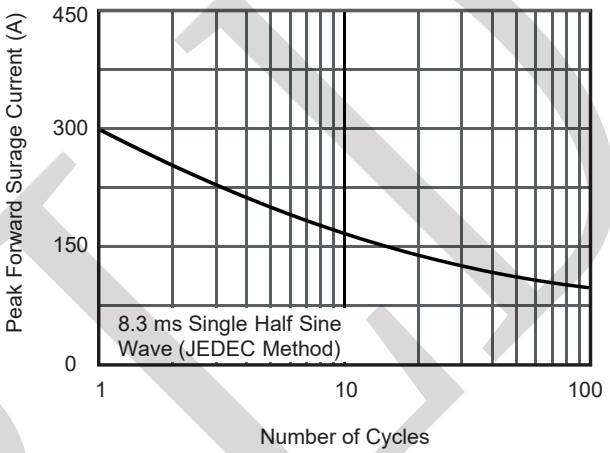


Fig.3 Typical Forward Voltage

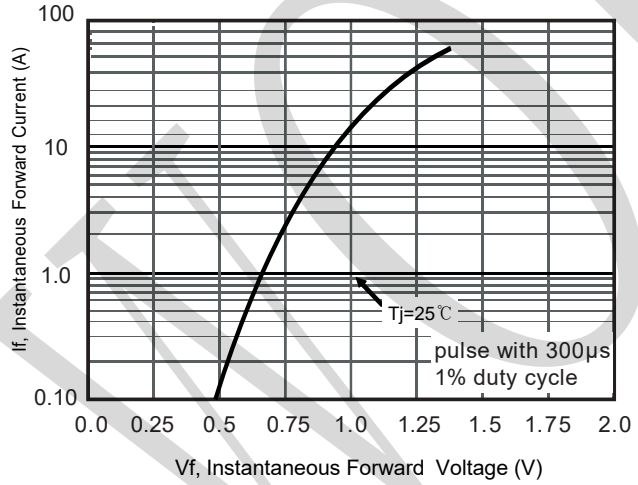
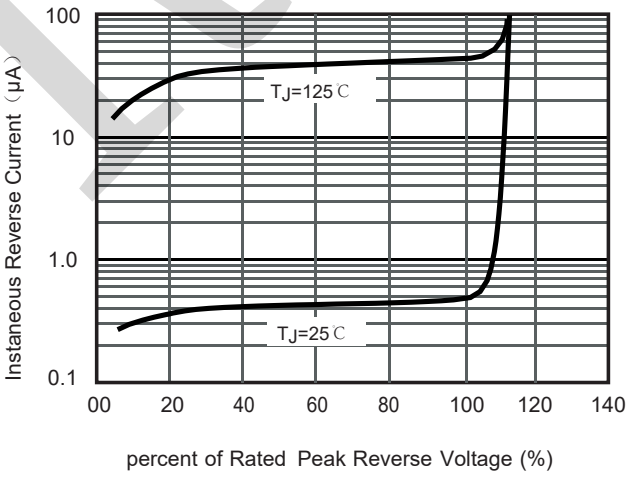
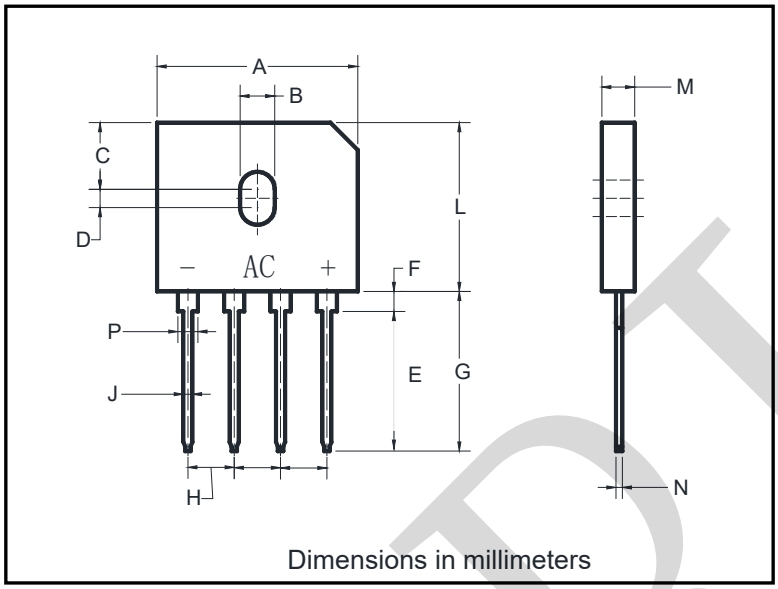


Fig.4 Typical Reverse Characteristics



Package Outline Dimensions

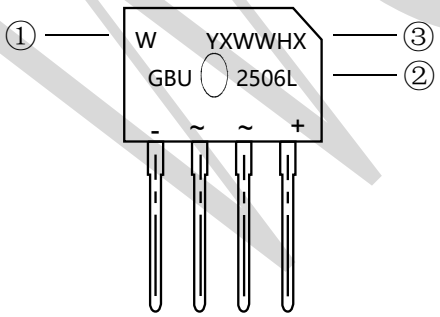
Note:unit In(mm)



Dimensions in millimeters

GBU		
Dim	Min	Max
A	21.50	22.50
B	3.20	4.20
C	7.40	8.00
D	1.50	2.30
E	15.0	16.2
F	1.90	2.70
G	16.9	18.9
H	4.80	5.50
J	1.00	1.40
L	18.2	19.0
M	3.20	3.80
N	0.40	0.70
P	2.00	2.40

Marking Information



①W : Company's trademark
②Product model : GBU2506L
③PDC information：

Y X WW H X

- X:Internal identification code 2
- H:Halogen-free
- WW:Week code(01 to 53)
- X:Internal identification code 1
- Y:Year code(ex:0=2020)

WORLD

Revision Histor			
Date	Revision	Description & changes	Author
2017.11.08	1.0	Initial version	Sun
2018.11.13	1.1	Add printed characters	Sun
2021.11.18	1.2	Parameter update	Sun
2026.07.01	1.3	Version updating	Tang

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