Shenzhen World Industrial Co.,Ltd.

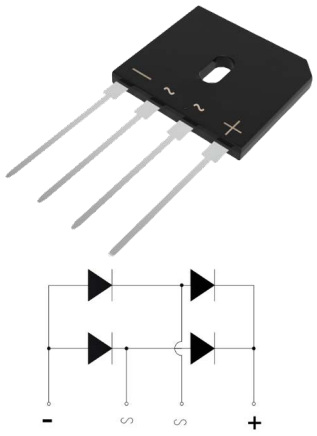
# GBU1506L

01-Jul-2026

## Low VF Bridge Rectifiers

VF:0.71V@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 | GBU1506L | 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 | $I_o$ | 15.0 | 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 ( 1ms< t < 8.3ms) | $I^2t$ | 373.5 | $A^2S$ |
| Maximum Forward Voltage at 7.5 A | $V_F$ | 0.95 | V |
| Maximum DC Reverse Current @TA=25 °C<br>at Rated DC Blocking Voltage @TA=125 °C | $I_R$ | 10<br>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

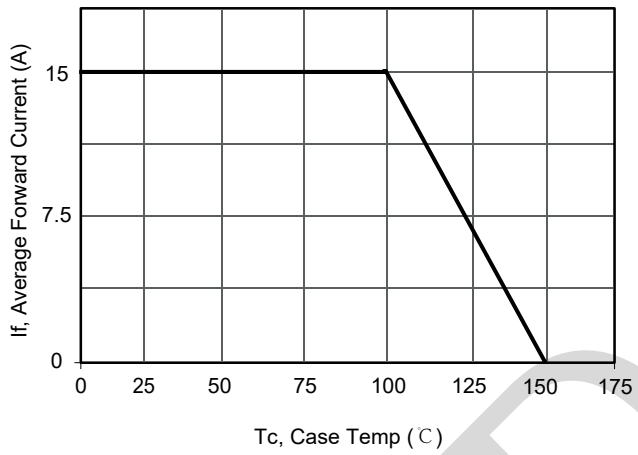



Fig.2 Maximum Non-Repetitive Peak Forward Surage Current

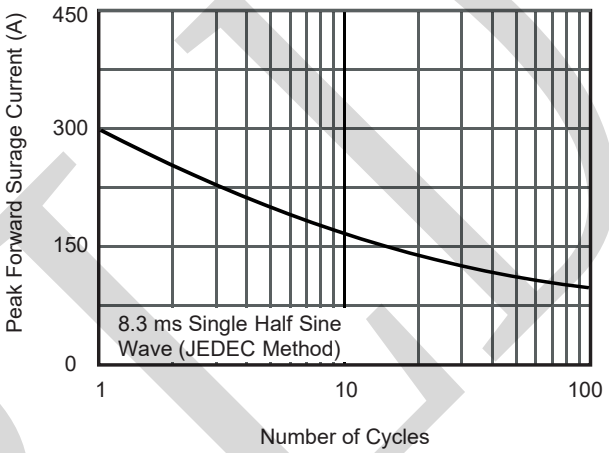



Fig.3 Typical Forward Voltage

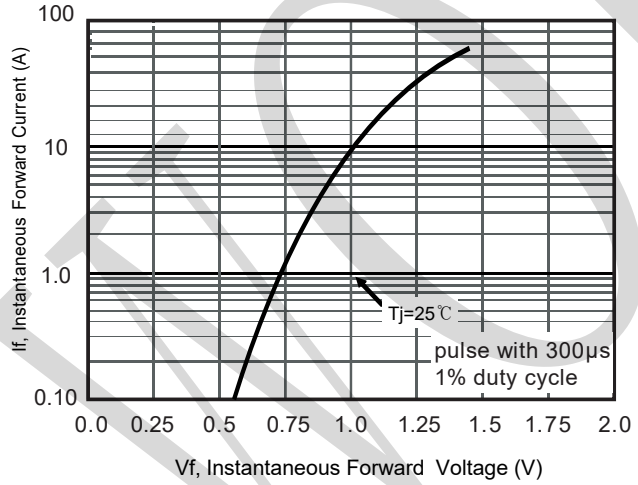
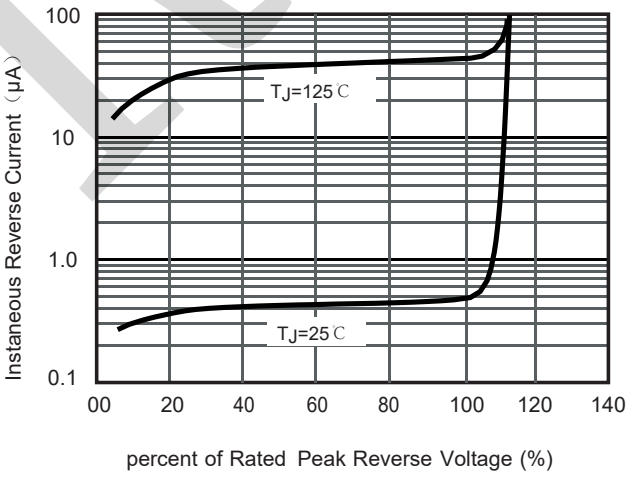
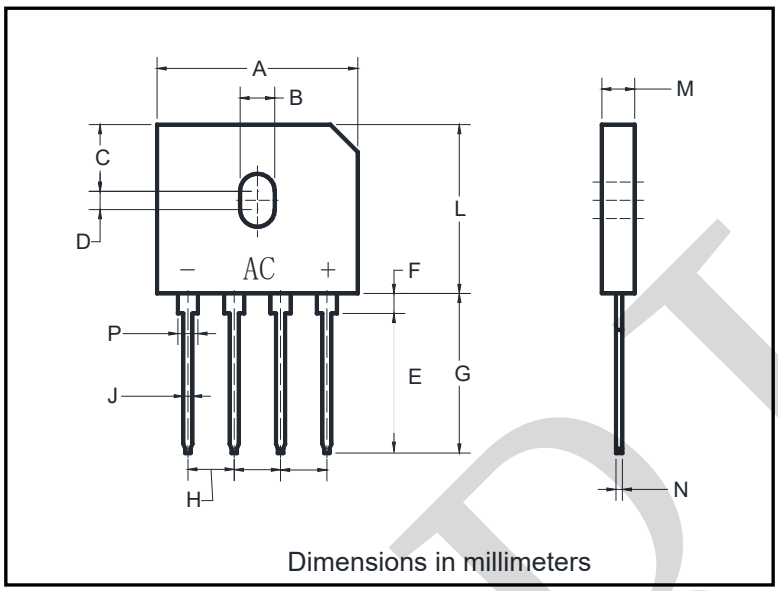



Fig.4 Typical Reverse Characteristics



## Package Outline Dimensions

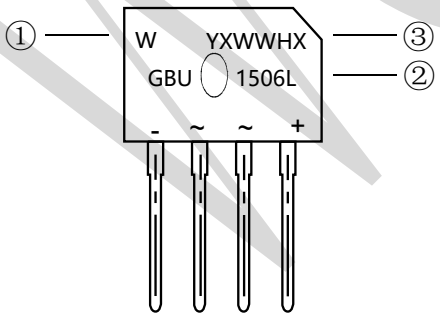
**Note:unit In(mm)**




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 : GBU1506L
③PDC information：

Y X WW H X

- M: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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