GBU2516

GBU Plastic-Encapsulate Bridge Rectifier

Reverse Voltage
50-1000 V

Forward Current
25.0 A max

Features

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique

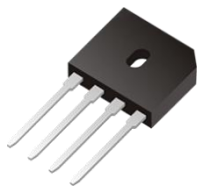
Applications

- General purpose use in AC/DC bridge full wave rectification

Mechanical Data

- Case：GBU
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant,Solder plated, solderable per MIL-STD-750,Method 2026

Appearance Image



Marking

- GBU2516

Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER	SYMBOL	UNIT	GBU2516
Repetitive peak reverse voltage	V_{RRM}	V	1600
Maximum RMS voltage	V_{RMS}	V	1120
Maximum DC blocking Voltage	V_{DC}	V	1600
Maximum average output current@60Hz sine wave, resistance load	$I_{F(AV)}$	A	25.0
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	300
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	600
Current squared time @1ms≤t<8.3ms Tj=25°C，Rating of per diode	I^2t	A^2S	373.50
Storage temperature	T_{stg}	°C	-55～+150
Junction temperature	T_j	°C	-55～+150

Electrical Characteristics @ Ta = 25°C unless otherwise noted

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	GBU2516
Maximum instantaneous forward voltage	I_F=12.5A	V_F	V	1.0
Maximum DC reverse currentat rated DC blocking voltage	V_R=V_{DC}, Tj=25°C	I_R	μA	5
	V_R=V_{DC}, Tj=100°C	I_R		500

Characteristic Curve (Typical)

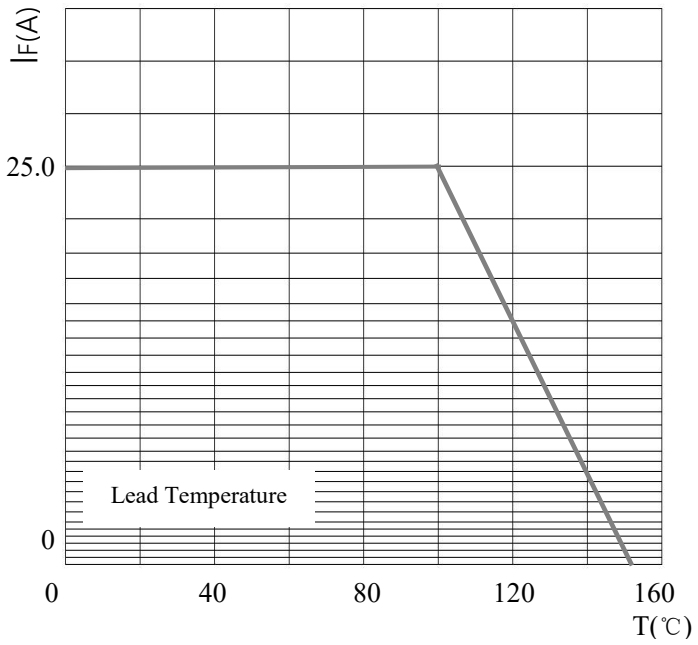


FIG1.Derating Curve For Output Rectified Current

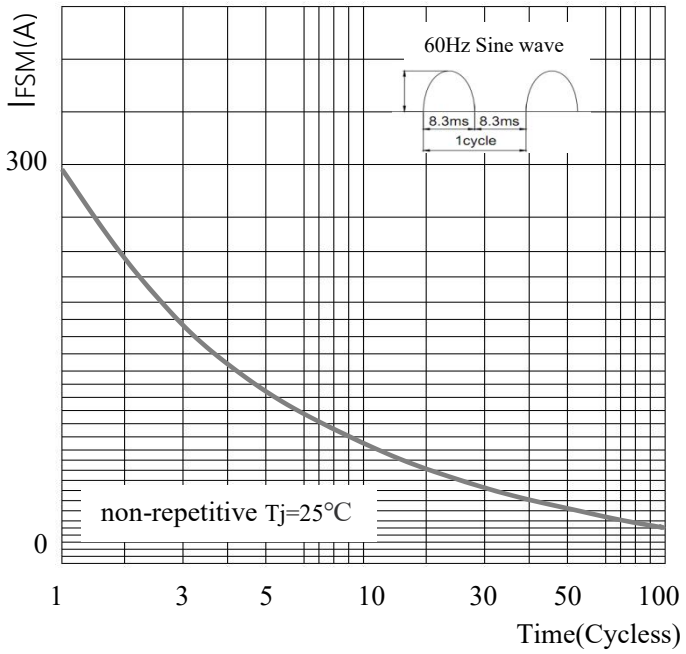


FIG2. Surge Forward Current Capability

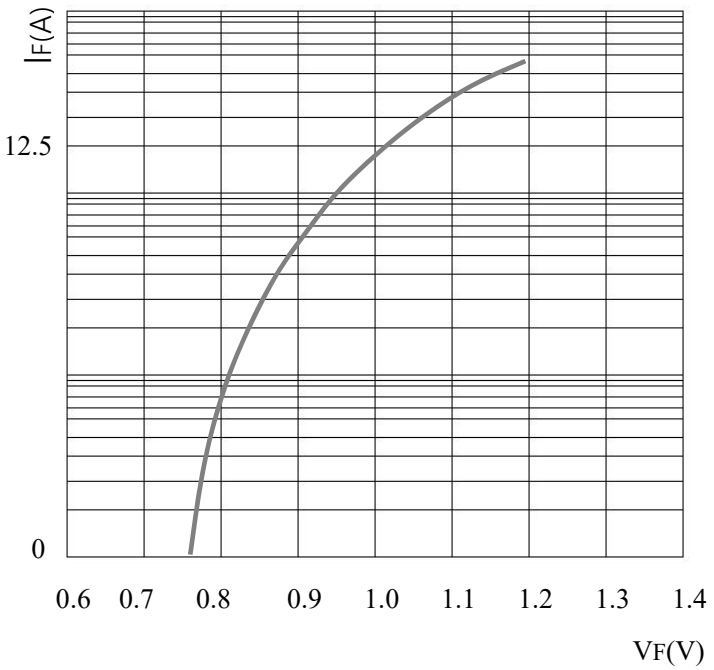


FIG3.Typical Forward Characteristics

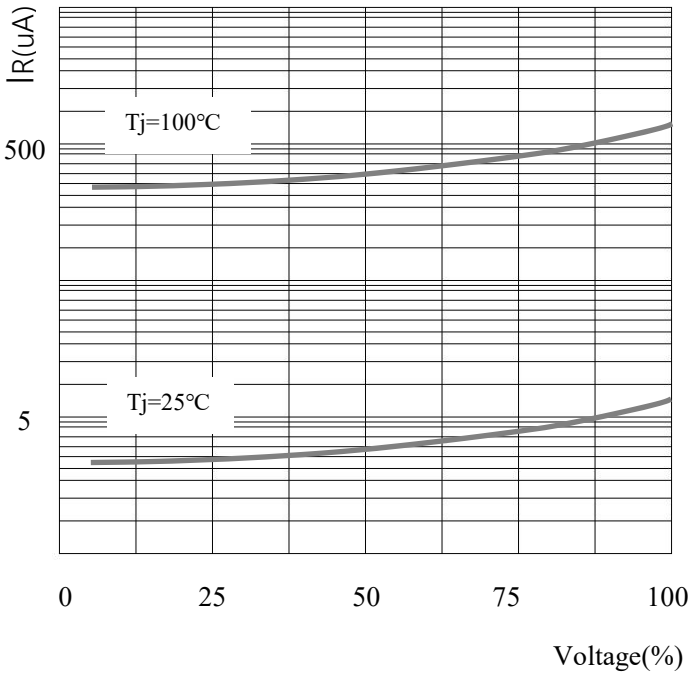
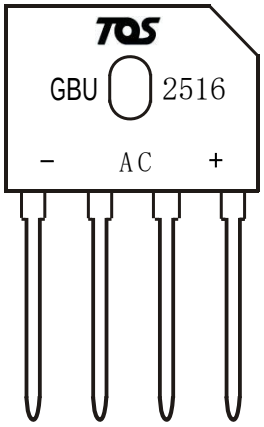


FIG4.Typical Reverse Characteristics

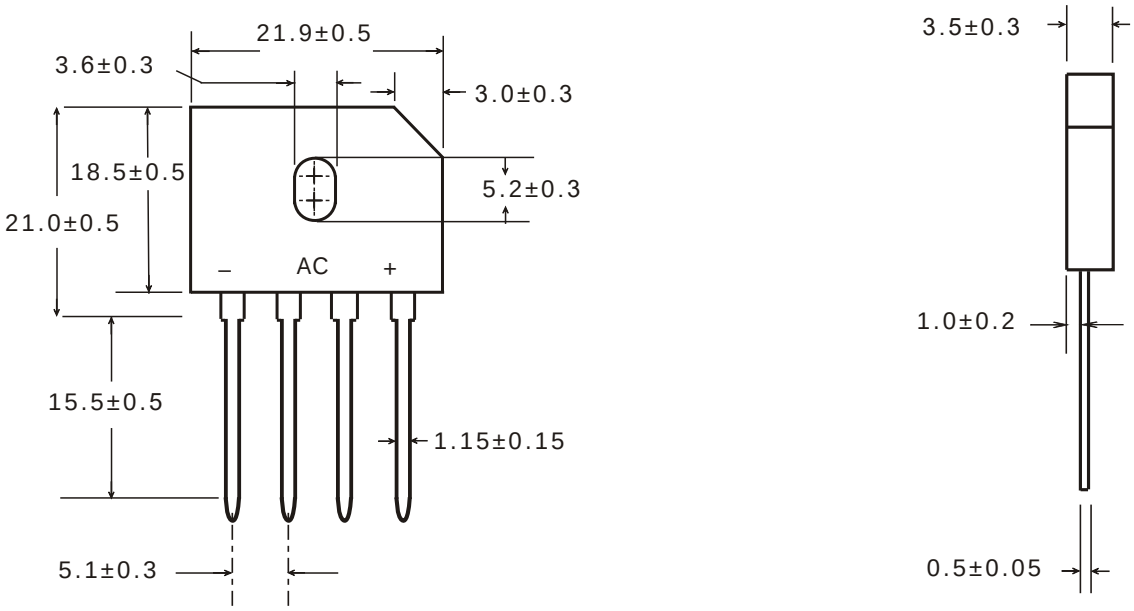
Marking and packet information



GBU2516：Marking Model　　TOS：Brand Logo

Packaging information	
每盒	500PCS
每箱	5000PCS
脚长定制	支持

GBU Package outline dimensions



Dimensions in milimeters

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