

■ 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

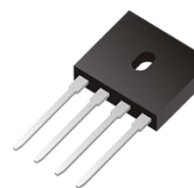
- Case: GBU
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant, Solder plated, solderable per MIL-STD-750, Method 2026



Reverse Voltage
600 V

Forward Current
25.0 A max

Appearance Image



■ Marking

- GBU2506L

■ Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER	SYMBOL	UNIT	GBU2506L
Repetitive peak reverse voltage	V_{RRM}	V	600
Maximum RMS voltage	V_{RMS}	V	420
Maximum DC blocking Voltage	V_{DC}	V	600
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	A²S	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	GBU2506L
Maximum instantaneous forward voltage	$I_F=12.5A$	V_F	V	0.95
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_j=25^{\circ}C$	I_R	μA	5
	$V_R=V_{DC}, T_j=100^{\circ}C$	I_R		500

■ Characteristic Curve (Typical)

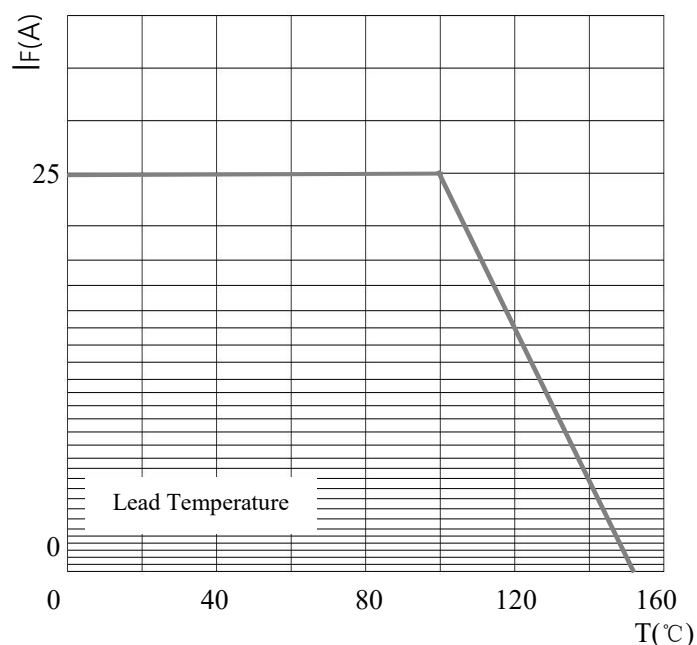


FIG1. Derating Curve For Output Rectified Current

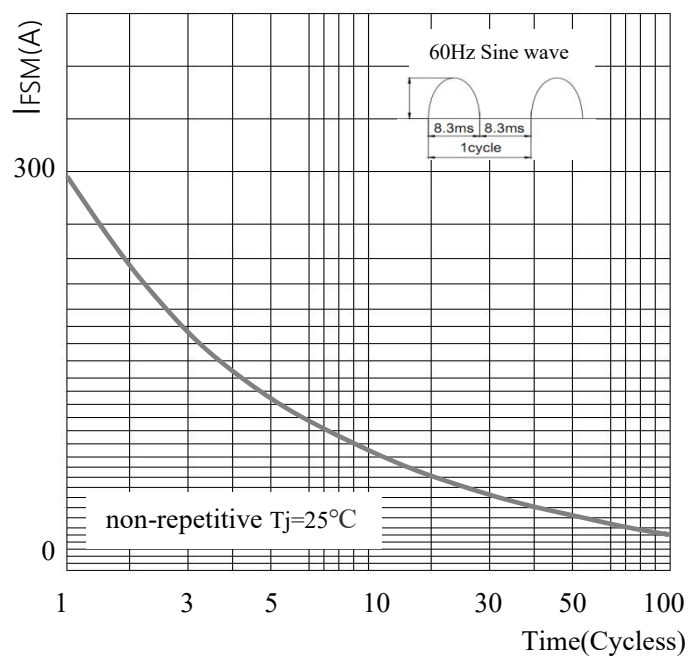


FIG2. Surge Forward Current Capability

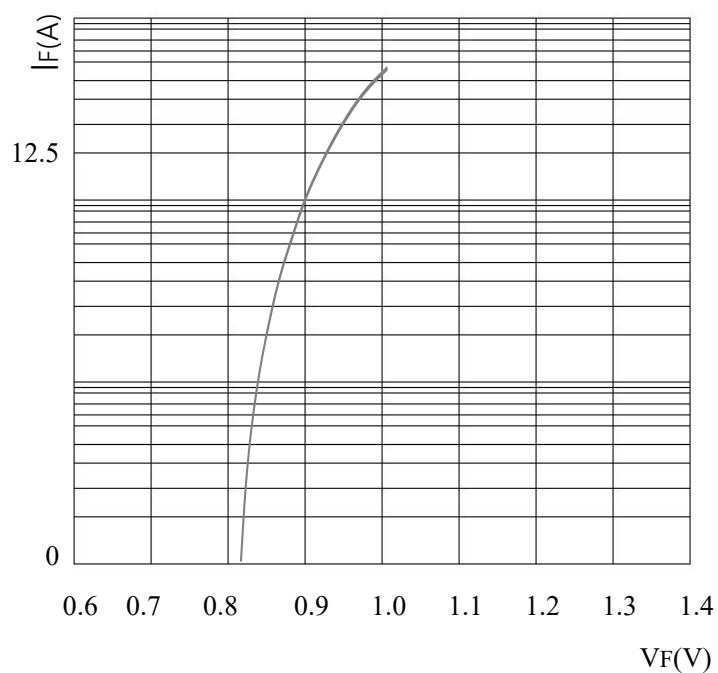


FIG3. Typical Forward Characteristics

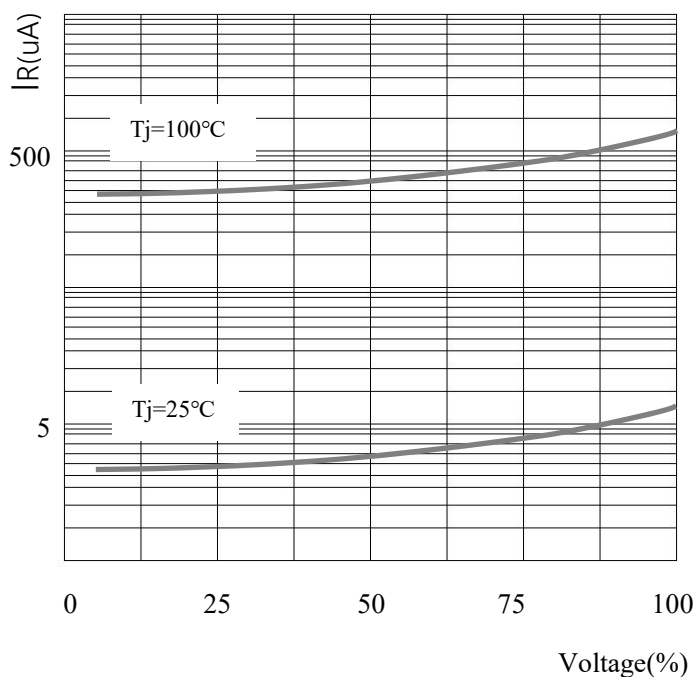
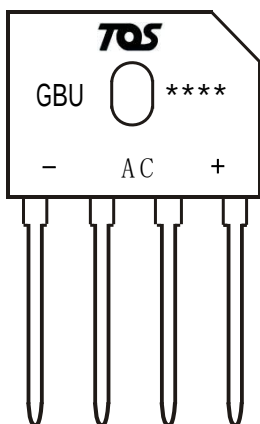


FIG4. Typical Reverse Characteristics

■ Marking and packet information

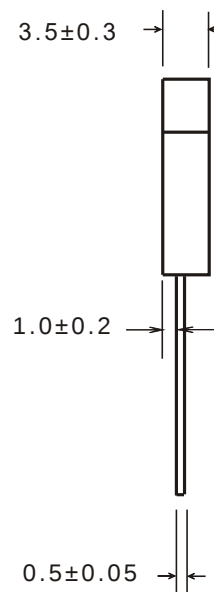
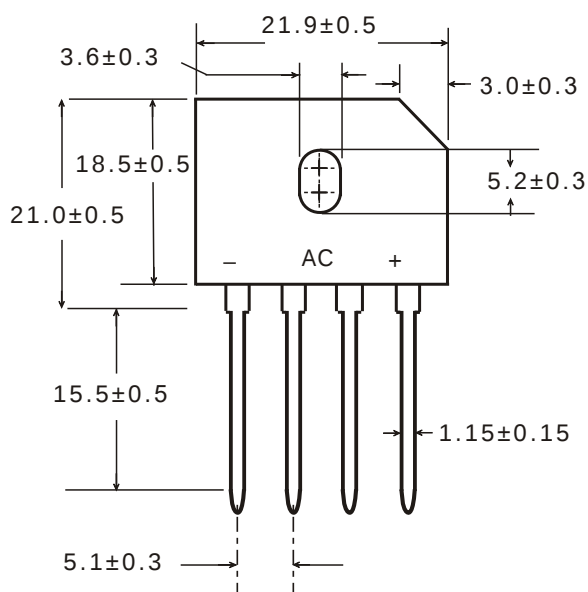


GBU**** : Marking Model

TQS : Brand Logo

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

■ GBU Package outline dimensions



Dimensions in millimeters

■ Notice

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