

GBJ
Features

The plastic package carries Underwriters Laboratory
Flammability Classification 94V-0
Idea for printed circuit board
Glass passivated junction chip
Low reverse leakage
High forward surge current capability
High temperature soldering guaranteed
260 C/10 seconds at terminals

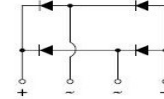
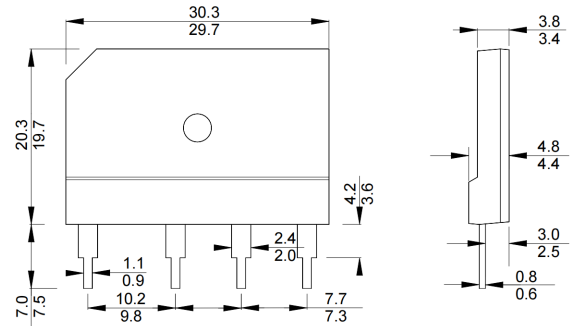
Mechanical Data

Case : Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750,Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any



Dimensions in millimeters

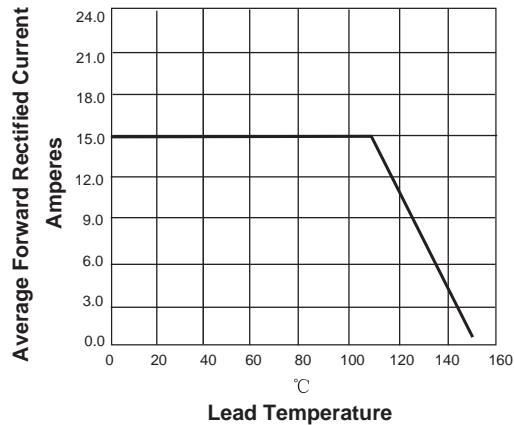
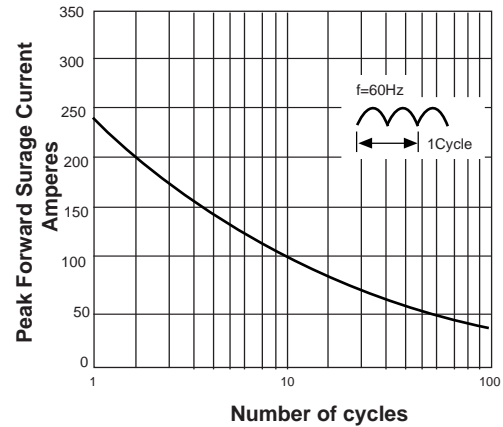
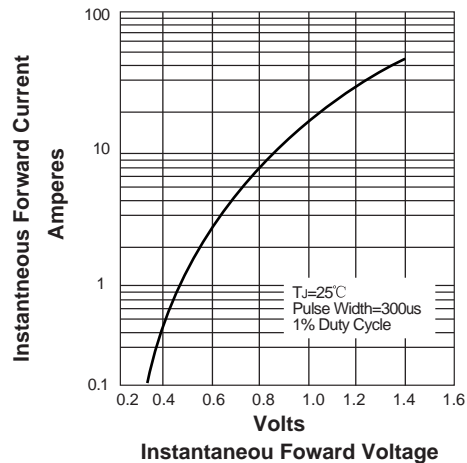
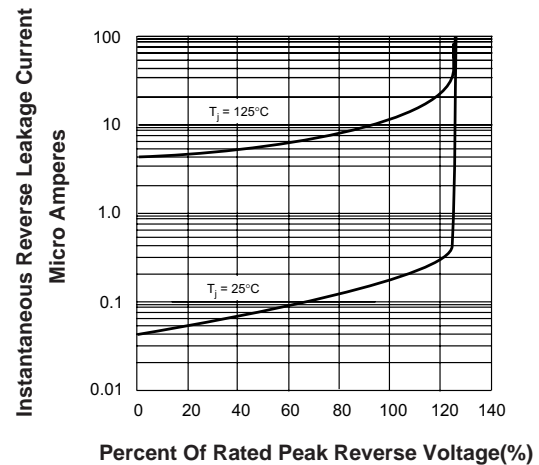
Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

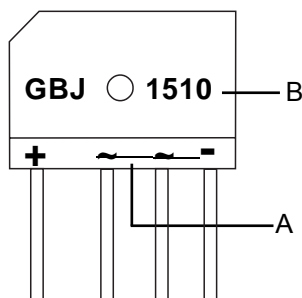
Parameter	SYMBOLS	GBJ1510	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC blocking voltage	V_{DC}	1000	V
Maximum average forward rectified current with heatsink	$I_{(AV)}$	15.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	240.0	A
Rating for fusing ($t=8.3ms$, $T_A=25^\circ C$)	I_t^2	239	A_s^2
Maximum instantaneous forward voltage at 15.0A	V_F	1.10	V
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$	I_R	2.0 200	μA
Typical junction capacitance (Note 1)	C_J	48.0	pF
Typical thermal resistance	R_{QA}	23.0	$^\circ C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150	$^\circ C$

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Ratings And Characteristic Curves

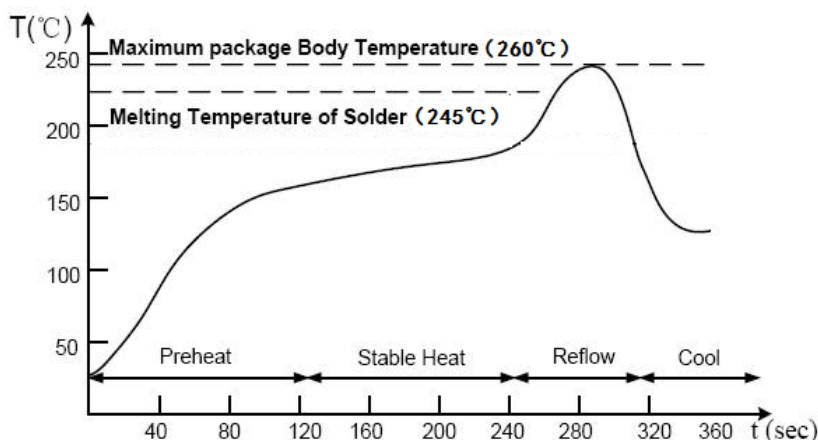
FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

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

FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS


Marking



Symbol	Explanation
A	Polarity Symbol
B	Product Name

Suggested Soldering Temperature Profile



Note

Recommended reflow methods: IR, vapor phase oven, hot air oven, wave solder.
The device can be exposed to a maximum temperature of 260°C for 10 seconds.
Devices can be cleaned using standard industry methods and solvents.
If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

NOTICE

The information presented in this document is for reference only. Involving product optimization and productivity improvement, ChipNobo reserves the right to adjust product indicators and upgrade some technical parameters. ChipNobo is entitled to be exempted from liability for any delay or non-delivery of the information disclosure process that occurs.

本文件中提供的信息仅供参考。涉及产品优化和生产效率改善，ChipNobo 有权调整产品指标和部分技术参数的升级，所出现信息披露过程存在延后或者不能送达的情形，ChipNobo 有获免责权。

The product listed herein is designed to be used with residential and commercial equipment, and do not support sensitive items and specialized equipment in areas where sanctions do exist. ChipNobo Co., Ltd or anyone on its behalf, assumes no responsibility or liability for any damages resulting from improper use.

此处列出的产品旨在民用和商业设备上使用，不支持确有制裁地区的敏感项目和特殊设备，ChipNobo 有限公司或其代表，对因不当使用而造成的任何损害不承担任何责任。

For additional information, please visit our website <https://www.chipnobo.com/en> or consult your nearest Chipnobo sales office for further assistance.

欲了解更多信息，请访问我们的网站 <https://www.chipnobo.com/en>，或咨询离您最近的 Chipnobo 销售办事处以获得进一步帮助。