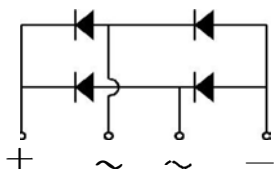


Glass Passivated Bridge Rectifiers

GBJ



Features

- Glass Passivated Chip Junction
- Reverse Voltage - 1600 V
- Forward Current - 35A
- High Surge Current Capability
- Designed For Surface Mount Application

Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting Position: Any

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	GBJ3516	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	1600	V
Maximum RMS voltage	VRMS	1120	V
Maximum DC Blocking Voltage	VDC	1600	V
Average Rectified Output Current	Io	35.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	450	A
I ² t rating for fusing (1ms< t < 8.3 ms)	I ² t	840	A ² S
Maximum Forward Voltage at 17.5 A	VF	1.05	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 500	μA
Dielectric Strength: TeTerminals to Case, AC 1 minute	Vdis	2.5	KV
Typical Thermal Resistance	RθJA RθJC	22.0 1.5	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Current Derating, Case

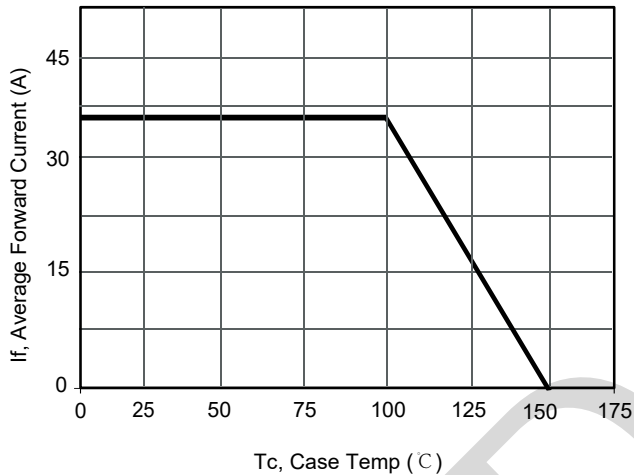


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

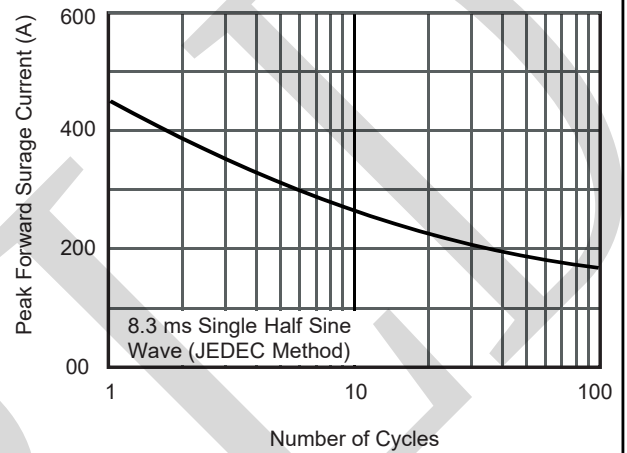


Fig.3 Typical Forward Voltage

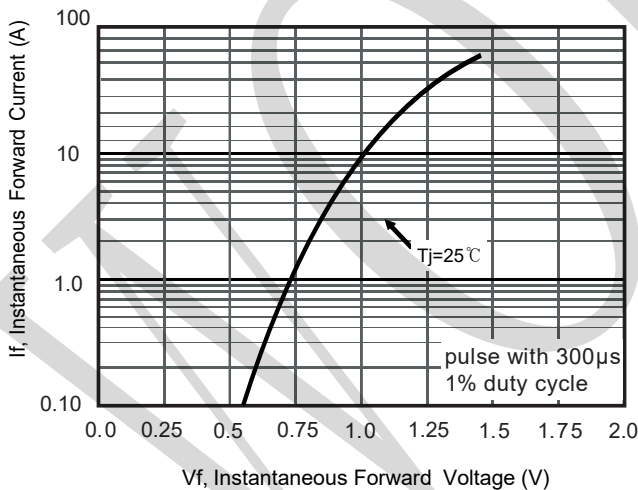
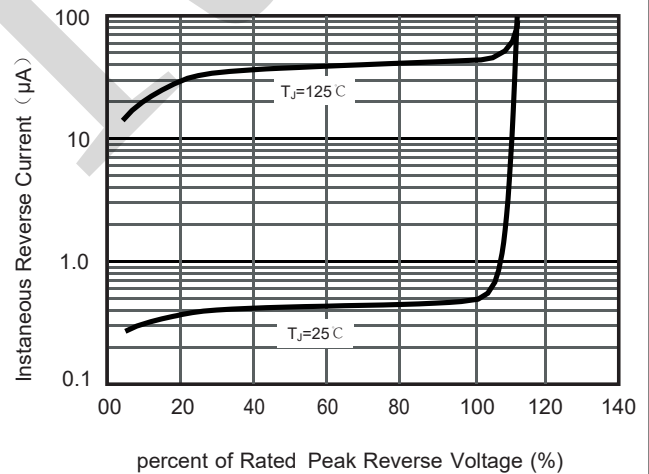
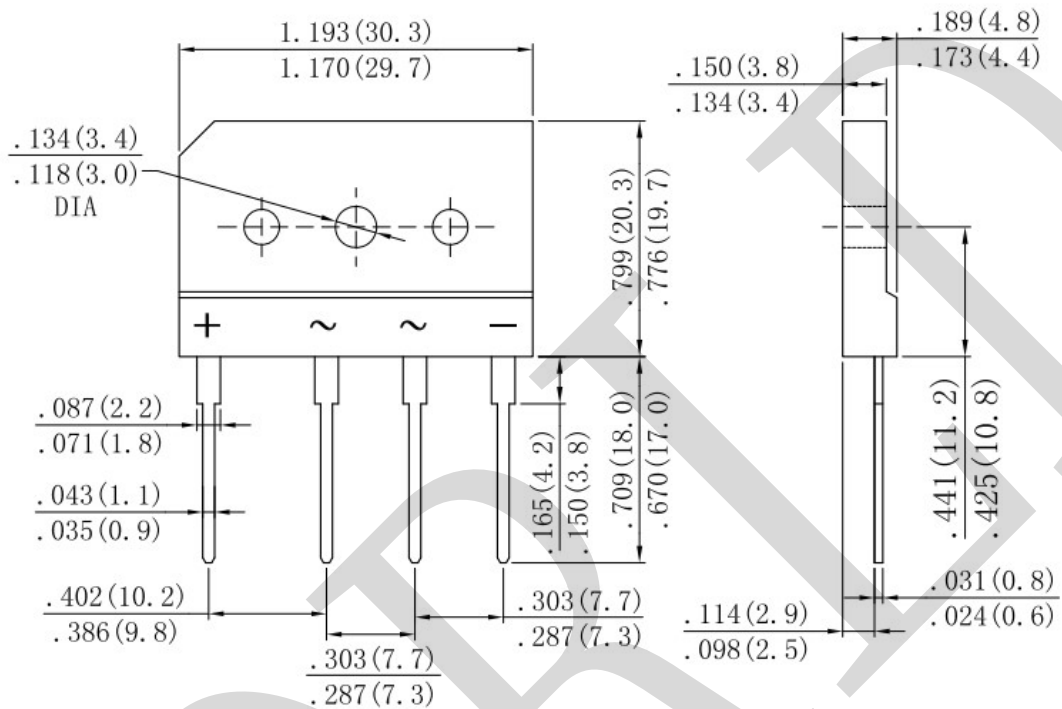


Fig.4 Typical Reverse Characteristics

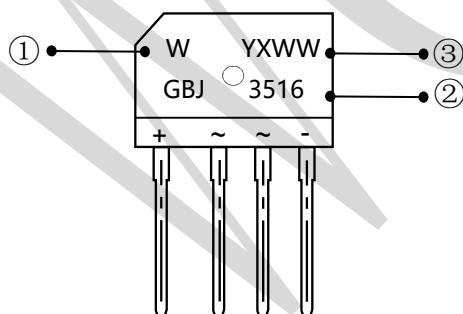


PACKAGE OUTLINE DIMENSIONS



Dimensions in inches and(millimeters)

Marking Information



①W : Company's trademark

②Product model : GBJ3516

③PDC information:

Y X WW

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)

Revision History

No	Revise Contents	Revise Date	Revision No
1	New formulation	23-Nov-2024	1.0
2			
3			
4			
5			
6			
7			