

Glass Passivated Low Profile Bridge Rectifier

Voltage

600 V

Current

35A

Features

- Glass passivated chip junction
- Thin single in-line package
- High surge current capability



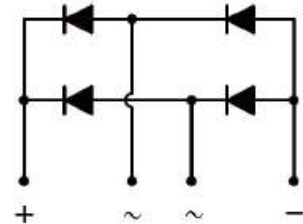
Mechanical Data

- Case : GBJA Package
- Molding compound meets UL 94 V-0 flammability Rating, RoHS-compliant, Halogen free
- Terminals : Tin plated leads , Solderable per J-STD-002 and JESD22-B102
- Approx. Weight : 4.422 grams

Application

- Slim Adapter Power
- Game Console Power
- TV Power

GBJA



Key Parameters	
Parameter	Value
V_{RRM}	600V
$I_F(AV)$	35A
I_{FSM}	360A
I_R	5uA
$T_J \text{ max.}$	150°C
Package	GBJA

Maximum Ratings and Thermal Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	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
Maximum Average Forward Current	With heatsink	$I_{F(AV)}$	35	A
	Without heatsink		3.6	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25^\circ\text{C}$	I_{FSM}	360	A
	@ $T_A = 125^\circ\text{C}$		288	
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25^\circ\text{C}$	I_{FSM}	720	A
	@ $T_A = 125^\circ\text{C}$		576	
$I^2 t$ rating for fusing ($t = 8.3\text{ms}$)		$I^2 t$	537	A^2S
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4\text{ V}$		C_J	116	pF
Typical Thermal Resistance (Note1)		$R_{\theta JA}$	5	$^\circ\text{C/W}$
		$R_{\theta JL}$	2	
		$R_{\theta JC}$	1	
Operating junction and storage temperature range		T_J, T_{STG}	-55~150	$^\circ\text{C}$
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 17.5\text{ A}, T_J = 25^\circ\text{C}$	-	-	1.0	V
Reverse Current	I_R	$V_R = 600\text{ V}, T_J = 25^\circ\text{C}$	-	-	5	μA
		$V_R = 600\text{ V}, T_J = 125^\circ\text{C}$	-	-	100	

NOTES :

1. Device mounted on 75mm * 45mm * 5.5mm Aluminum Plate Heatsink.

TYPICAL CHARACTERISTIC CURVES

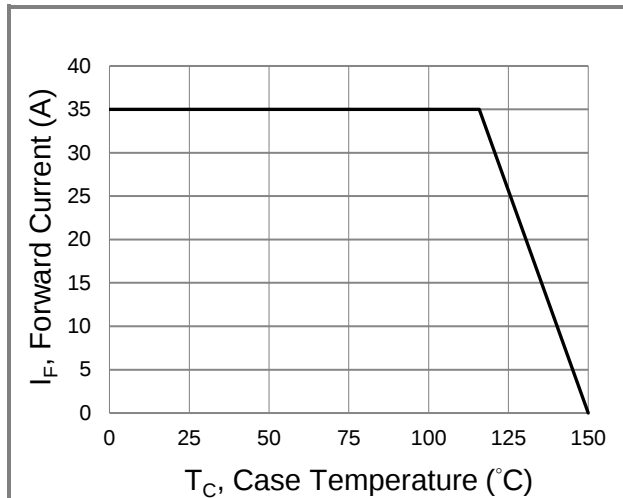


Fig.1 Forward Current Derating Curve

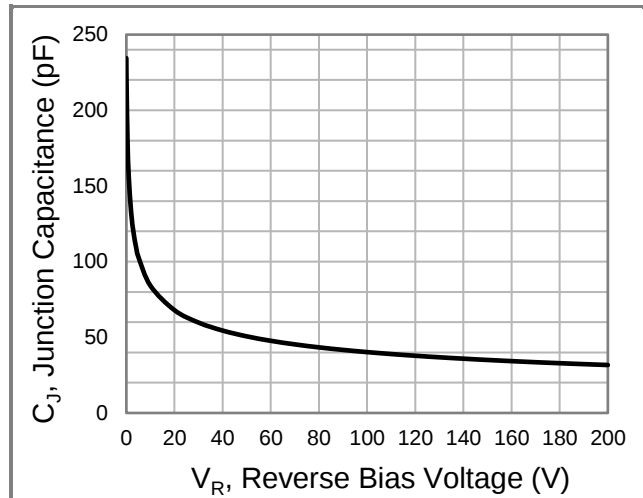


Fig.2 Typical Junction Capacitance

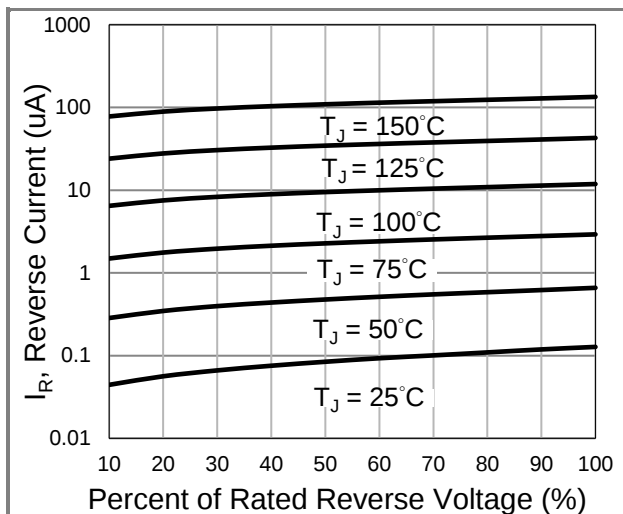


Fig.3 Typical Reverse Characteristics

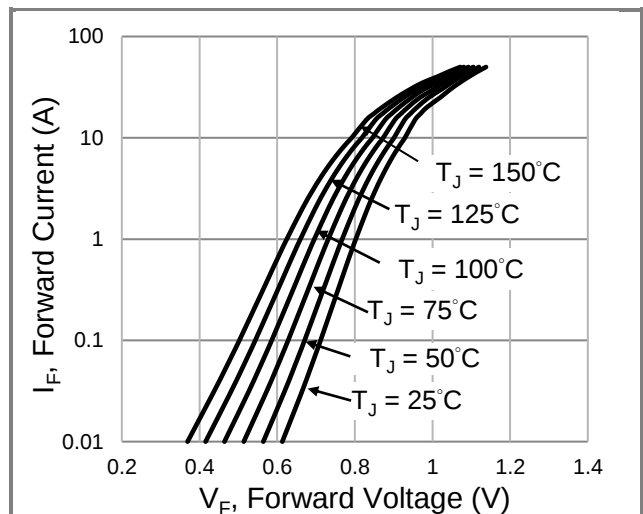


Fig.4 Typical Forward Characteristics

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBJA3506	GBJA	15 pcs / tube	GBJA3506

Packaging Information

GBJA Dimension		Unit: inch(mm)			
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The technical drawing shows the GBJA3506 package from two perspectives. The top view is a rectangle with dimensions E (width) and D (height). It features a central circular marking with a '+' sign and two smaller circular markings on either side. The bottom view shows four pins with dimensions b1 (pin width), b (pin spacing), e1 (pin pitch), and e (pin width). The side view shows the package height with dimensions A (total height), A1 (height to the top of the pins), A2 (height to the bottom of the pins), D2 (height to the top of the pins), and c (pin diameter).

GBJA Dimension.Unit:Inch (mm)					
Dim	Unit (Inch)		Unit (mm)		
	Min	Max	Min	Max	
A	0.169	0.193	4.30	4.90	
A1	0.098	0.114	2.50	2.90	
A2	0.130	0.154	3.30	3.90	
b	0.035	0.043	0.90	1.10	
b1	0.059	0.067	1.50	1.70	
C	0.016	0.024	0.40	0.60	
D	0.559	0.583	14.20	14.80	
D1	0.614	0.638	15.60	16.20	
D2	0.343	0.366	8.70	9.30	
E	1.13	1.154	28.70	29.30	
e	0.287	0.303	7.30	7.70	
e1	0.386	0.402	9.80	10.20	
L	0.575	0.598	14.60	15.20	
M	Ø0.122	Ø0.134	Ø3.10	Ø3.40	

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