TAITRON components incorporated

Single-Phase Glass Passivated Bridge Rectifier

GBJ35005 - GBJ3510

Single-Phase Glass Passivated Bridge Rectifier

Features

GBJ

- Plastic package has Underwriters Laboratory Flammability Classification 94 V-0
- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Ideal for printed circuit boards
- RoHS Compliant

Mechanical Data

Case:	Molded Plastic
Terminals:	Plated leads solderable per MIL-STD-202, method 208
Polarity:	Molded on Body
Mounting Torque:	8.8 In-1bs Max.
Weight:	7.0 grams

Maximum Ratings (*$T_{Ambient}$=25ºC unless noted*)

Symbol	Description	GBJ35 005	GBJ35 01	GBJ35 02	GBJ35 04	GBJ35 06	GBJ35 08	GBJ35 10	Unit
V_{RRM}	Max. Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V
V_{RMS}	Max. RMS Voltage	35	70	140	280	420	560	700	V
V_{DC}	Max. DC Blocking Voltage	50	100	200	400	600	800	1000	V
$I_{(AV)}$	Max. Average Forward Rectified Output Current at T_C=100°C	35							A
I_{FSM}	Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	350							A
T_J, T_{STG}	Operating and Storage Temperature Range	-55 to +150							° C

Electrical Characteristics *($T_{Ambient}$=25ºC unless noted otherwise)*

Symbol	Description		GBJ35 005	GBJ35 01	GBJ35 02	GBJ35 04	GBJ35 06	GBJ35 08	GBJ35 10	Unit
V_F	Max. Instantaneous Forward Voltage Drop per leg at 17.5A DC		1.1							V
I_R	Max. DC Reverse Current at Rated DC Blocking Voltage per leg	T_A=25°C	10							µA
		T_A=125°C	350							
$R_{\theta-JA}$	Typical Thermal Resistance per leg (Note2)		22							
$R_{\theta-JC}$	Typical Thermal Resistance per leg (Note1)		1.0							° C/W

Notes:

1. Device mounted on 220 x 220 x 1.6mm thick Al plate heat sink.
2. Device mounted on P.C.B. without heat sink.
3. Single phase, 60Hz, resistive or inductive load.
4. For capacitive load, derate current by 20%.

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

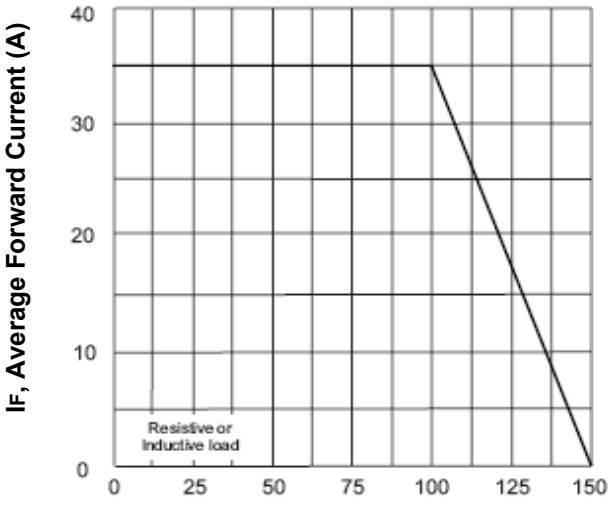


Fig.2- Max. Non-Repetitive Surge Current per leg

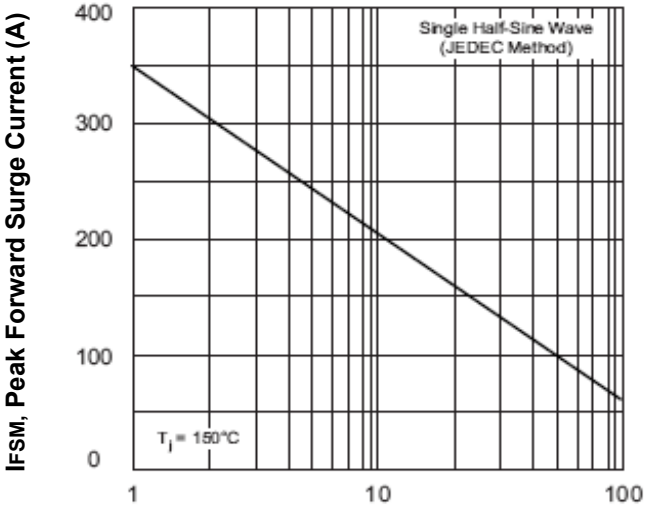


Fig.3- Typical Forward Characteristics per leg

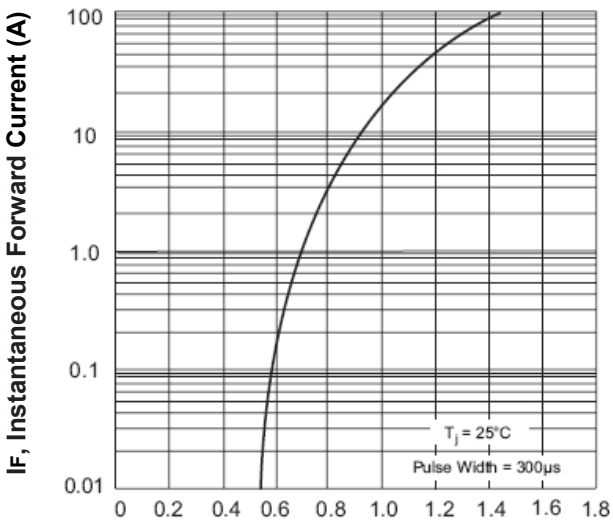


Fig.4- Typical Reverse Characteristics per leg

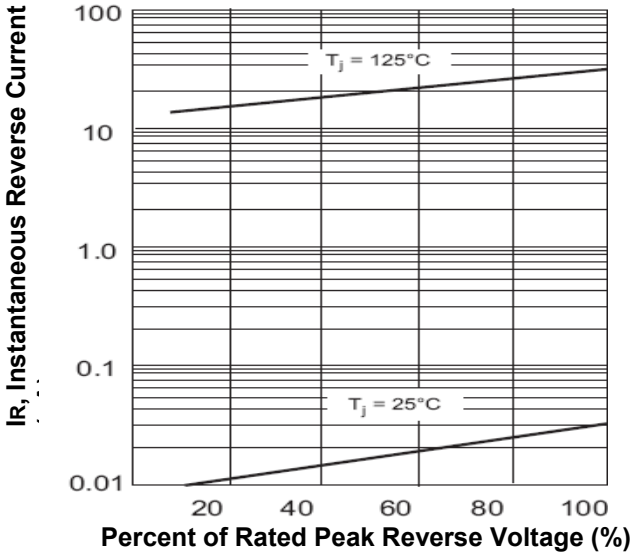
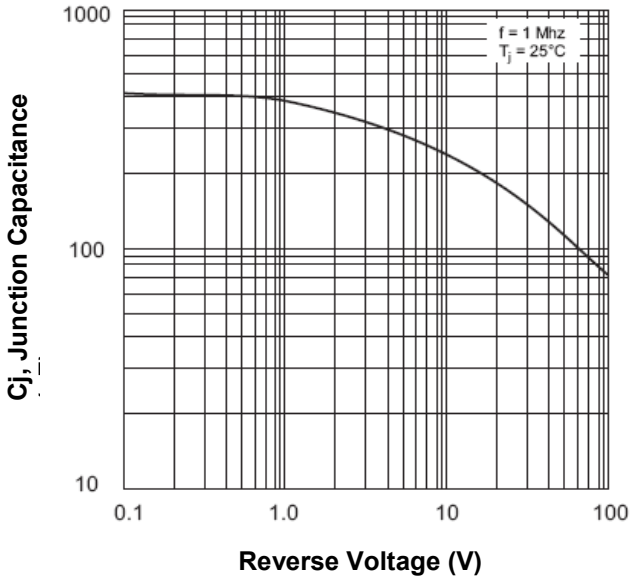
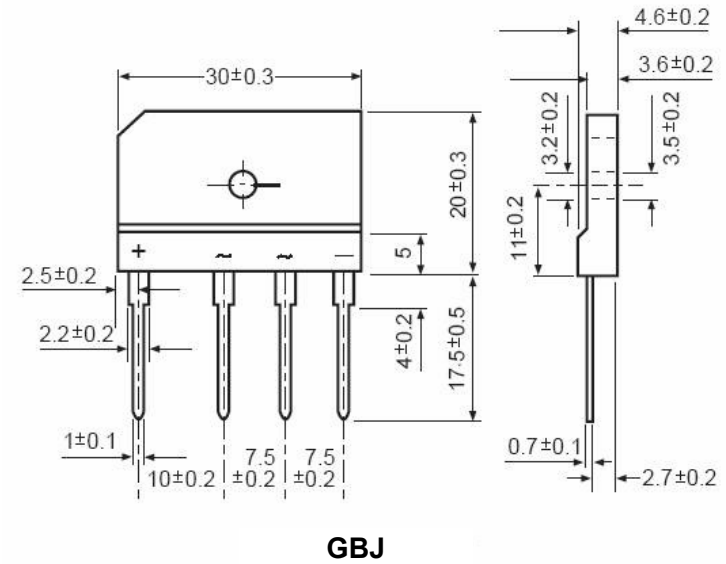


Fig.5- Typical Junction Capacitance per leg



Dimensions in mm



GBJ

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162
Tel: (800) TAITRON (800) 824-8766 (661) 257-6060
Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415
Email: taitron@taitroncomponents.com
Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P. 42970 MEXICO
Tel: +52-55-5560-1519
Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL
Tel: +55-11-5574-7949
Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

CROSS REGION PLAZA, 899 LINGLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA
Tel: +86-21-5424-9942
Fax: +86-21-5424-9931