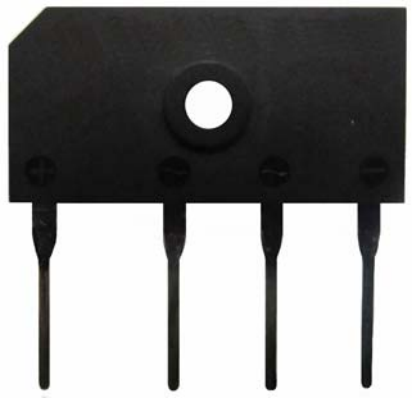
RGBJ15D thru RGBJ15M

Glass Passivated Single Phase Bridge Rectifiers

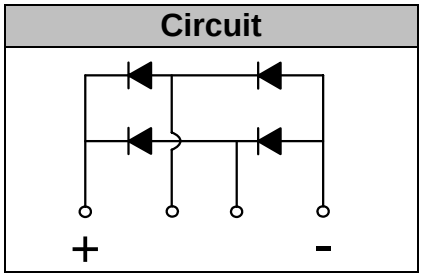


Reverse Voltage 200 to 1000V
Forward Current 15 Amp

Features

- Glass passivated die construction
- Ideal for printed circuit boards
- Plastic material used carries UL flammability recognition 94V-0
- High surge current capability
- High temperature soldering guaranteed: 265℃ /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

Circuit



Mechanical Data

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

Module Type

TYPE	V_{RRM}	V_{RSM}
RGBJ15D	200V	300V
RGBJ15G	400V	500V
RGBJ15J	600V	700V
RGBJ15K	800V	900V
RGBJ15M	1000V	1100V

Maximum Ratings and Thermal Characteristics (TA = 25℃ unless otherwise noted)

Symbol	Conditions	Values	Units
$I_{F(AV)}$	Maximum average forward output rectified current Tc =85℃	15	A
I_{FSM}	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	240	A
i^2t	Rating for fusing (t<8.3ms)	240	A^2s
Visol	a.c.50HZ;r.m.s.;1min	2500	V
$R_{\theta JA}$ $R_{\theta JC}$	Maximum thermal resistance per leg	25 (1) 1.7 (2)	℃/W
TOR	Mounting Torque (Recommended torque:0.5 N.m)	0.8	N.m
T_j, T_{STG}	Operating Junction and storage temperature range	-55 to +150	℃
Weight	Approximate Weight	5.0	g

Electrical Characteristics (TA = 25℃ unless otherwise noted)

Symbol	Conditions		Values	Units
V_F	Maximum Instantaneous Forward Voltage per leg	I_{FM} =7.5A	1.05	V
I_R	Maximum DC reverse current at rated DC blocking voltage per leg	T_A = 25℃ T_A = 125℃	5.0 500	μA

Notes: (1) Junction to ambient without heatsink
(2) Junction to case with heatsink
(3) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

Performance Curves

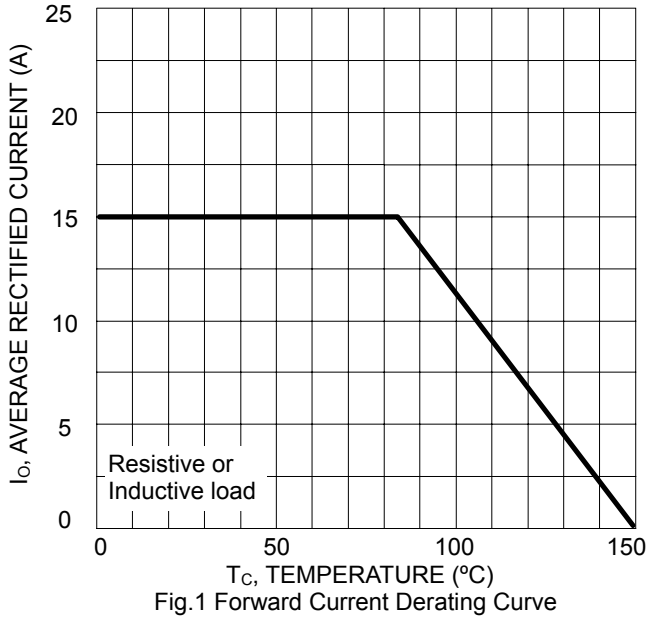


Fig.1 Forward Current Derating Curve

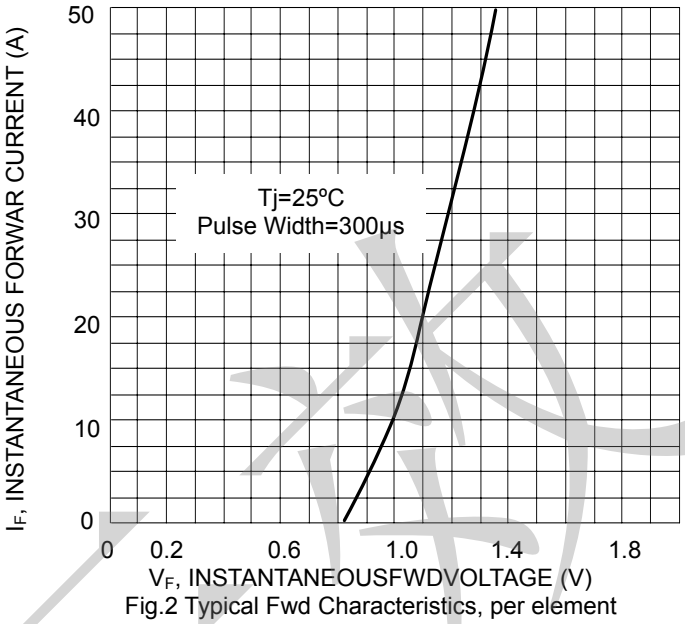


Fig.2 Typical Fwd Characteristics, per element

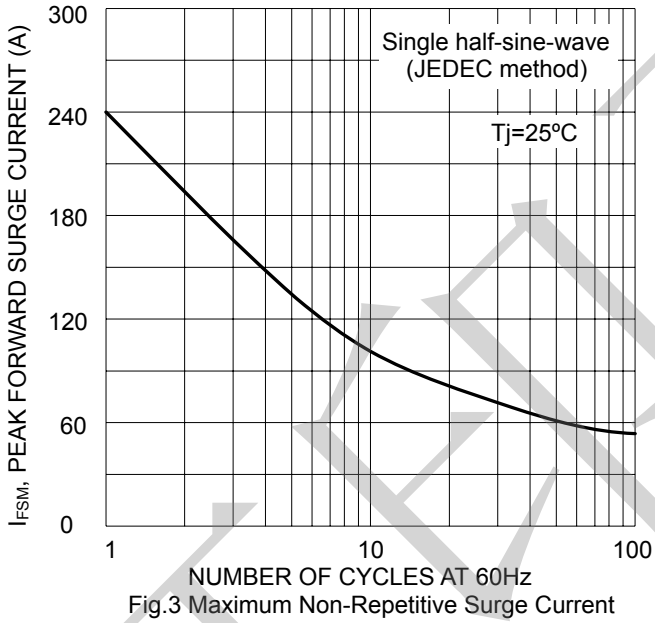


Fig.3 Maximum Non-Repetitive Surge Current

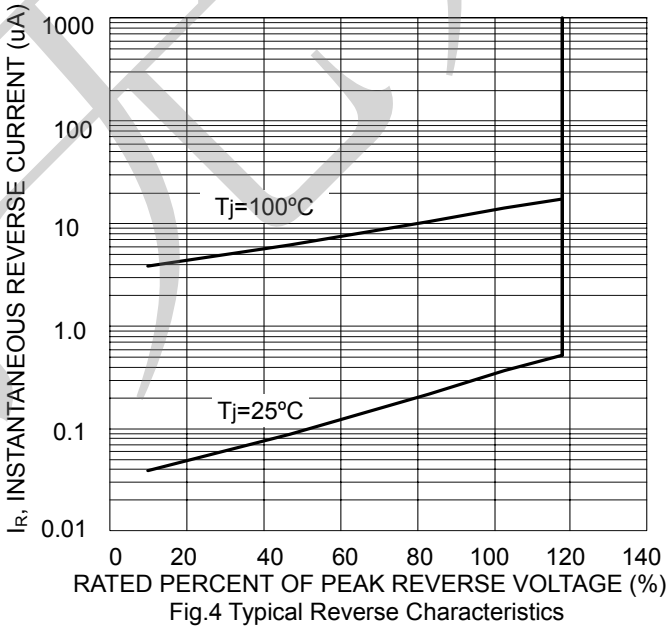
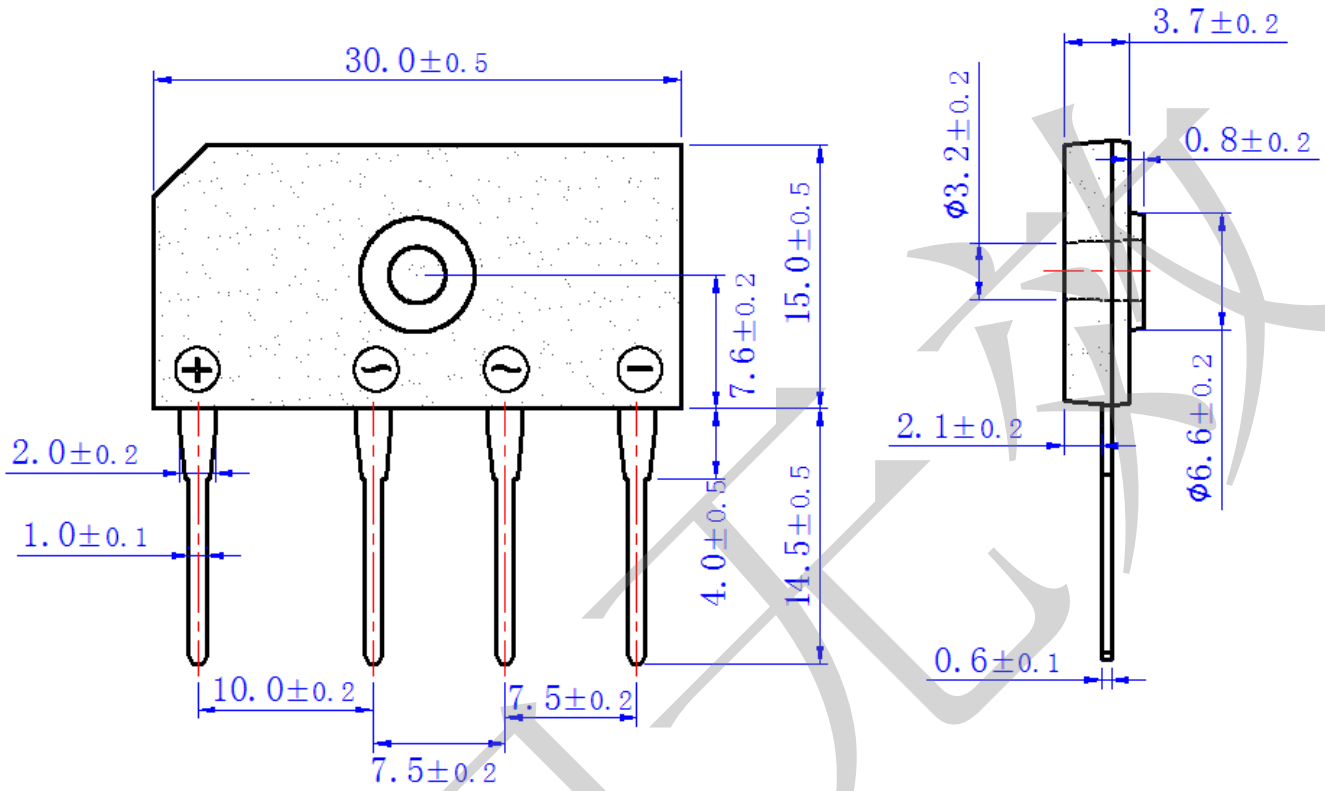


Fig.4 Typical Reverse Characteristics

Package Outline Information

CASE: RGBJ



Dimensions in inches (mm)