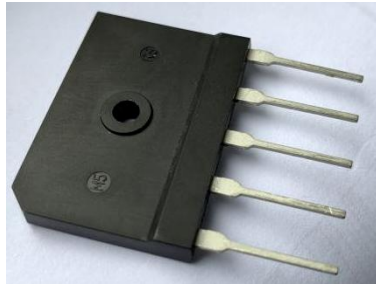




SGBJ3508 THRU SGBJ3516

Glass Passivated Single Phase Bridge Rectifiers

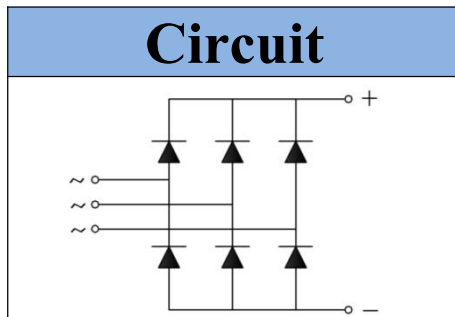


V_{RRM} 800 to 1600V

I_D 35 A

Features

- Glass passivated die construction
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed:
265°C /10 seconds, 0.375" (9.5mm) lead
length, 5lbs. (2.3kg) tension



Mechanical Data

Case: Molded plastic case

Terminals: Plated leads solderable per
MIL-STD-750, Method 2026

Polarity: Marked on Body

Mounting Position: Any

Bridge Type

TYPE	V _{RRM}	V _{RSM}
SGBJ 3508	800V	900V
SGBJ 3510	1000V	1100V
SGBJ 3512	1200V	1300V
SGBJ 3514	1400V	1500V
SGBJ 3516	1600V	1700V

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

Symbol	Conditions	Values	Units
I _D	average forward output current sine wave ,R-load T _c =100°C	35	A
I _{FSM}	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz T _j =25°C	400	A
I ² t	Rating for fusing (t=1~10ms)	800	A ² s
V _{ISO}	A.C.50/60Hz;R.M.S.;1min	2500	V
T _j , T _{stg}	Operating Junction and storage temperature range	-40 to +150	°C
Ms	Mounting Torque (Recommended torque:0.65 N • m)	0.8	N • m
W _t	Approximate Weight	10	g

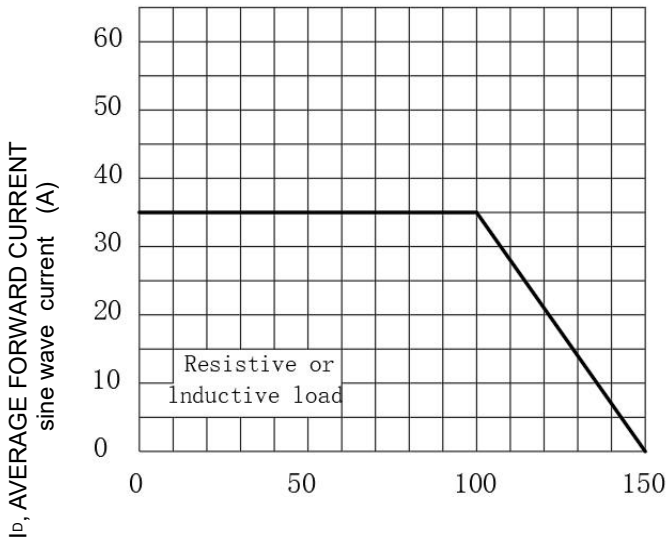
Electrical Characteristics (TA = 25°C unless otherwise noted)

Symbol	Conditions	Values	Units
V _{FM}	Maximum Forward Voltage per leg I _F =17.5A T _j =25°C	1.18	V
I _{RRM}	Maximum reverse current at rated blocking voltage per leg T _j = 150°C	3	mA
R _{th(j-c)}	Maximum thermal resistance per ⁽¹⁾ per diode total	7.8 1.3	°C/W

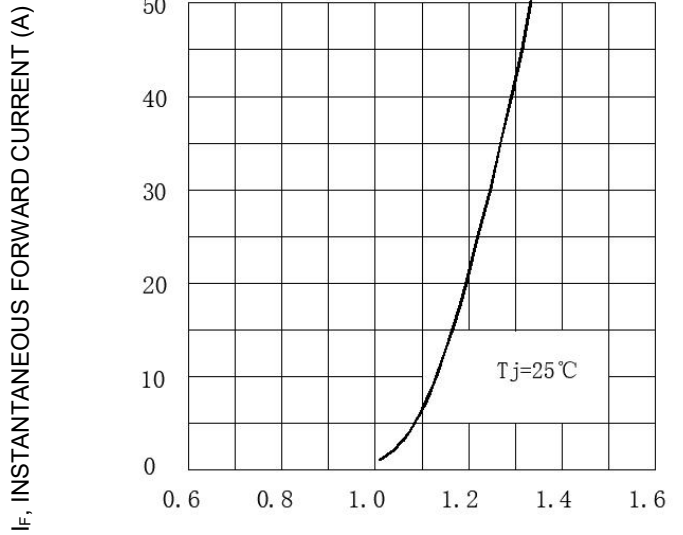
Notes: (1) Junction to case



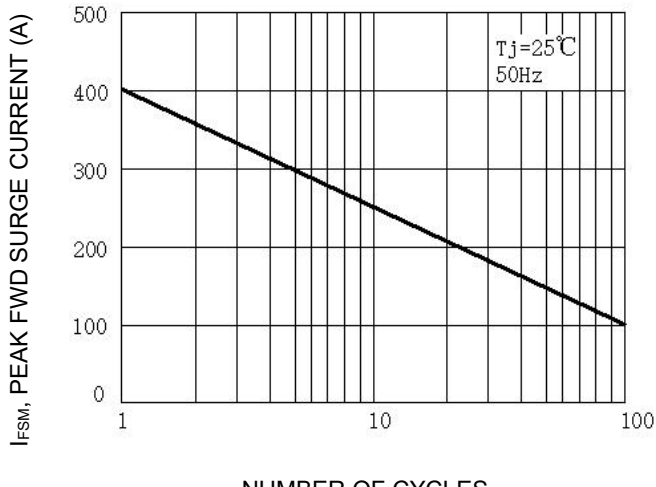
Performance Curves



T_c , TEMPERATURE (°C)
Fig.1 Forward Current Derating Curve



V_F , INSTANTANEOUS FWD VOLTAGE (V)
Fig.2 Maximum Forward Characteristics, per element



NUMBER OF CYCLES
Fig.3 Max Non-Repetitive Surge Current



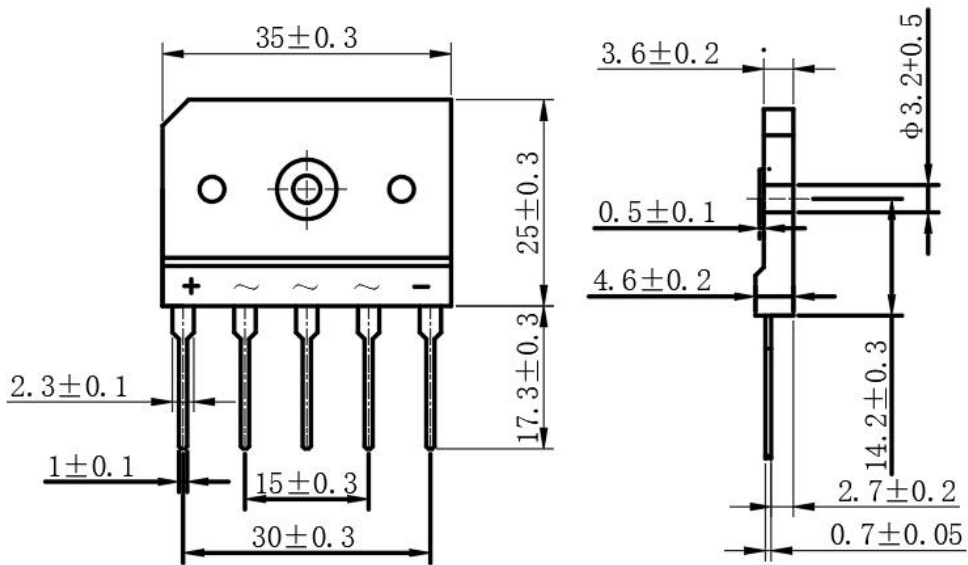


SGBJ3508 THRU SGBJ3516

Glass Passivated Single Phase Bridge Rectifiers

Package Outline Information

CASE: SGBJ



Dimensions in inches (mm)

X-ON Electronics

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