

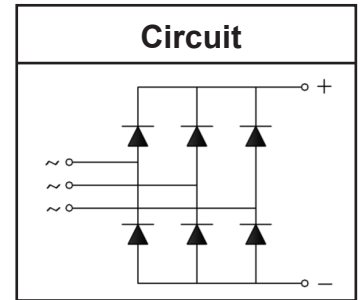
SGBJ3508 thru SGBJ3516

### Feature

- 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



### Maximum value

Symbol	Parameter	Rating					Unit
		SGBJ3508	SGBJ3510	SGBJ3512	SGBJ3514	SGBJ3516	
VRRM	Reverse peak repetitive voltage	800	1000	1200	1400	1600	V
VRSM	Reverse peak non-repetitive voltage	900	1200	1300	1500	1700	V

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

Symbol	Conditions	Rating	Unit
Id	Average forward output current sine wave ,R-load Tc =100°C	35	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) 50Hz Tj=25°C	400	A
I <sup>2</sup> t	Rating for fusing (t=1~10ms)	800	A <sup>2</sup> S
Viso	A.C.50/60Hz;R.M.S.;1min	2500	V
Tj,Tstg	Operating Junction and storage temperature range	-40 to +150	°C
Ms	Mounting Torque (Recommended torque:0.65 N·m)	0.8	N·m
Wt	Approximate Weight	10	g

### Electrical characteristics

Symbol	Conditions	Value	Unit
VFM	Maximum Forward Voltage per leg IFM =17.5A, Tj=25°C	1.18	V
IRRM	Maximum reverse current at rated blocking voltage per leg Tj=150°C	3	mA
Rth(j-c)	Maximum thermal resistance per (Junction to case)	per diode	9
		total	1.5

SGBJ3508 thru SGBJ3516

### Performance Curves

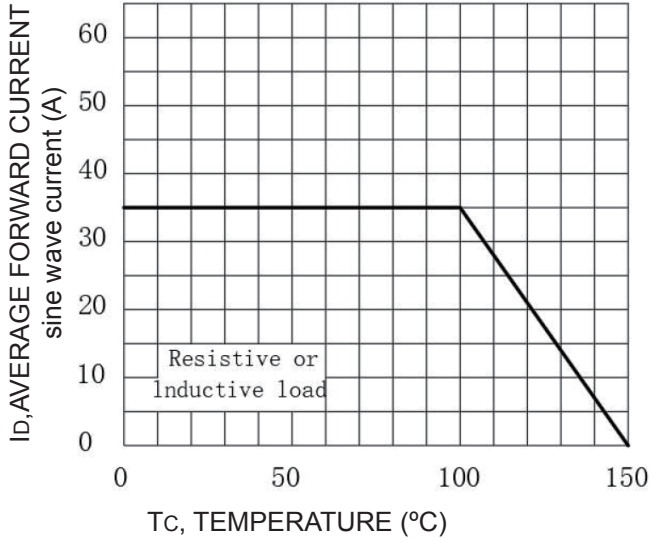


Fig.1 Forward Current Derating Curve

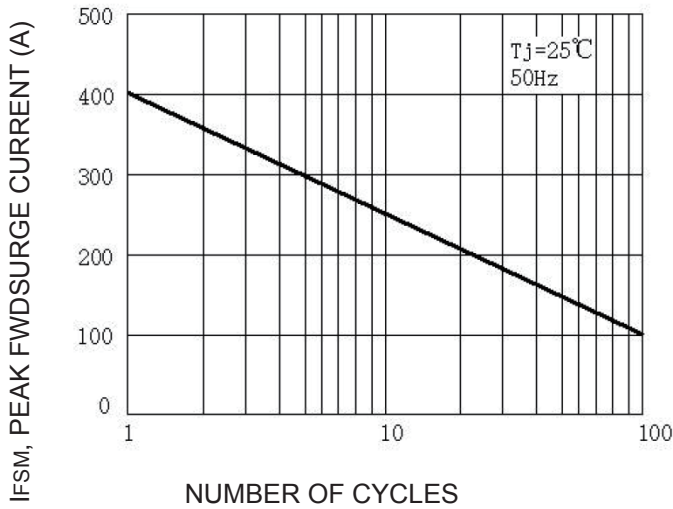


Fig.3 Max Non-Repetitive Surge Current

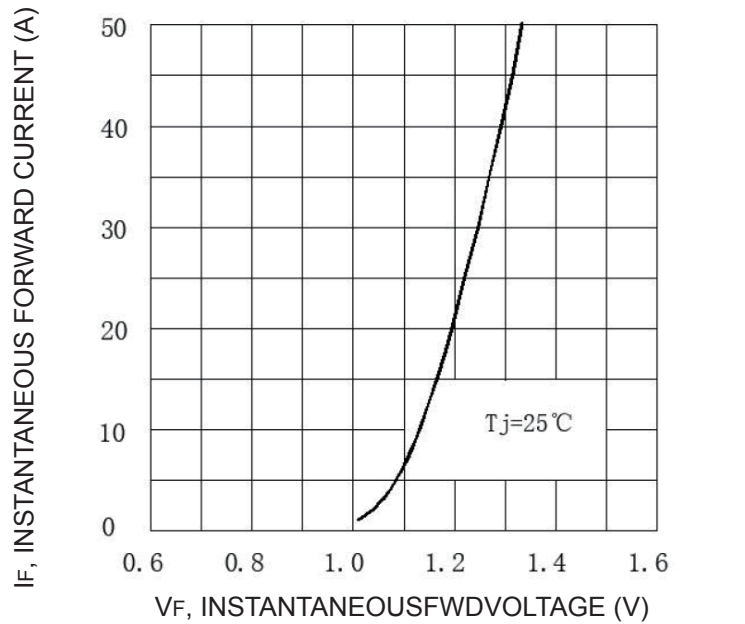


Fig.2 Maximum Forward Characteristics, per element

### Outline

