

SGBJ35A08 thru SGBJ35A16

GOOD-ARK Electronics

Three Phase Rectifier Power Bridge Reverse Voltage 800~1600V Output Current 35A

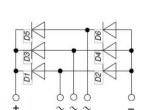
Features

- SIP 3 phase bridge
- Compact package outline in SGBJ
- High forward surge capability

Applications

- Motor control
- Power supplier
- Home appliance







SGBJ

Absolute Maximum Ratings (T _A =25°C unless otherwise noted)						
Parameter	Symbol	SGBJ35A08	SGBJ35A10	SGBJ35A12	SGBJ35A16	Unit
Maximum repetitive peak reverse voltage	VRRM	800	1000	1200	1600	٧
Maximum average output rectified current,with heatsink. Tc typical 100°C	lo	35			А	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (60HZ)	IFSM	450			А	
Rating for fusing (t≤8.3ms)	l²t	840			A ² s	
Dielectric strength, Terminalstocase, AC 1 minute	Vdis	2500			V	
Mounting Torque	Tor	Typical		0.5		N.m
		Ma	ax.	0	.8	
Operating junction and storage temperature range	TJ, TSTG	-55 to +150			°C	



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

Parameter	Test Conditions	Symbol	SGBJ35A08	SGBJ35A10	SGBJ35A12	SGBJ35A16	Unit	
Maximum	IF=12A,Ta=25°C, per diode	VF	1.05				- Volts	
Instantaneous forward voltage	IF=12A,Ta=125°C, per diode		1.0					
Maximum DC reverse current	Ta=25°C	I _R	5.0				- μΑ	
at rated DC blocking voltage Ta=125°C	Ta=125°C		500					
Typical thermal resistance	juntion to case, with heatsink	Rejc	В еJC 0.8			°C/W		
	juntion to ambient, without heatsink	ReJA		1	2] C/VV	



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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

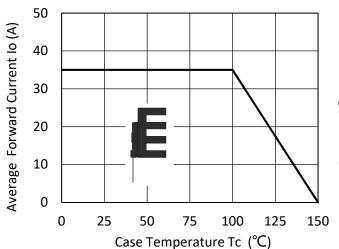


Fig.1 – Power Derating Curve (With heatsink)

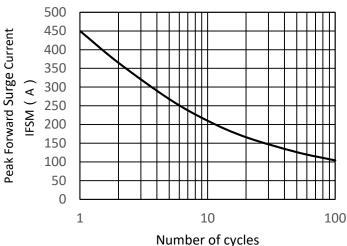


Fig.2 – Maximum Non-Repetitive Peak Forward Surge Current

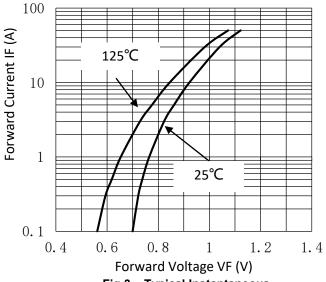


Fig.3 – Typical Instantaneous Forward Characteristics

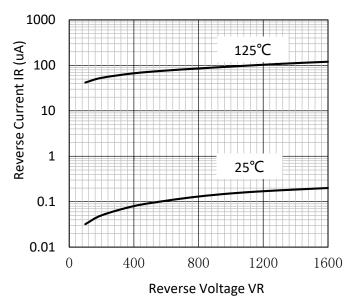
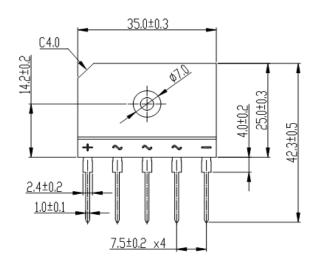


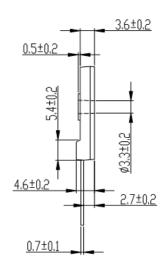
Fig.4 - Typical Reverse Characteristics

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Package Outline Dimensions

Unit: mm





Revision History

Document Version	Date of release	Description of changes	
Rev.A	2021.06.15	Released Datasheet	
Rev.B	2023.10.05	Modify document format	



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