

SGBJ25A08 thru SGBJ25A16

GOOD-ARK Electronics

Three Phase Rectifier Power Bridge Reverse Voltage 800~1600V Output Current 25A

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	SGBJ25A08	SGBJ25A10	SGBJ25A12	SGBJ25A16	Unit
Maximum repetitive peak reverse voltage	VRRM	800	1000	1200	1600	V
Maximum average output rectified current,with heatsink. Tc typical 100°C	lo	25			A	
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load (60HZ)	IFSM	400			A	
Rating for fusing (t≤8.3ms)	l²t	660			A²s	
Dielectric strength, Terminalstocase, AC 1 minute	Vdis	2500			V	
Mounting Torque	Tor	Typical		0	0.5	
		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	SGBJ25A08	SGBJ25A10	SGBJ25A12	SGBJ25A16	Unit
Maximum	IF=9A,Ta=25°C, per diode	VF	1.05				Volts
forward voltage	IF=9A,Ta=125°C, per diode		1.0				
Maximum DC reverse current at rated DC blocking voltage	Ta=25℃	IR	5.0				-μA
	Ta=125℃		500				
j V Typical thermal resistance j V	juntion to case, with heatsink	Rejc	1.0				°C/W
	juntion to ambient, without heatsink	Reja	12				



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Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





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3.6±0.2

\$3,3±0,2

2.7±0.2

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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