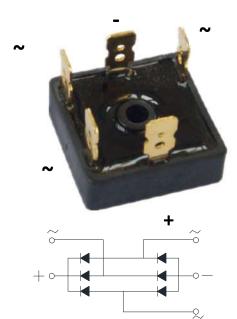
Three Phase Bridge Rectifiers



Features

- Glass passivated chip
- High surge current capability
- Low thermal resistance
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

• Package: SGBPC

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

maximum ratings (12 20 0 misses of the mess of the maximum ratings)									
PARAMETER	SYMBOL	UNIT	SGBPC5004	SGBPC5006	SGBPC5008	SGBPC5010	SGBPC5012	SGBPC501	SGBPC5016
Device marking code			SGBPC5004	SGBPC5006	SGBPC5008	SGBPC5010	SGBPC5012	SGBPC5014	SGBPC5016
Repetitive Peak Reverse Voltage	VRRM	V	400	600	800	1000	1200	1400	1600
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink, Tc=55°C	lo	Α		50					
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25℃	IFSM	Α		500					
Current Squared Time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l ² t	A ² S	1040						
Storage Temperature	T _{stg}	$^{\circ}$	-55~+150						
Junction Temperature	Tj	$^{\circ}$	-55~+150						
Dielectric Strength, Terminals to case, AC 1 minute	Vdis	KV	2.5						
Mounting Torque	TOR	kg · cm	10						

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SGBPC5004 SG	BPC5006 \$	GBPC500	8SGBPC5	010SGBP	C5012SGE	BPC5014S	GBPC5016
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=25A				1.2			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	10						

■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

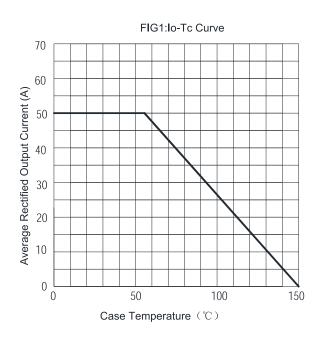
P	ARAMETER	SYMBOL	UNIT	SGBPC5004	SGBPC500	6 SGBPC50	08SGBPC50	10SGBPC5	012SGBPC	014SGBPC	501
Thermal Resistance	Between junction and case, With heatsink	R θ J-C	°C/W	0.88							



■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SGBPC5004~SGBPC5016	A1	Approximate 17.	5 50	50	500	Paper Box

■ Characteristics (Typical)



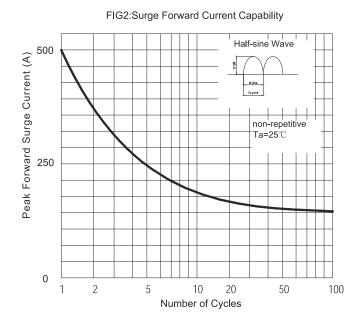


FIG3:Instantaneous Forward Voltage

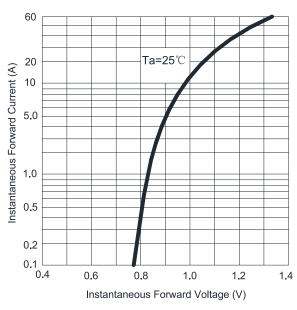
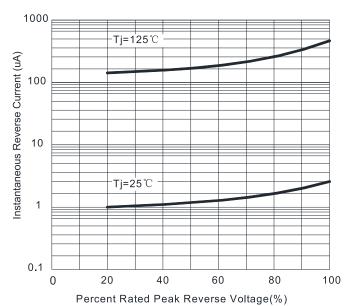
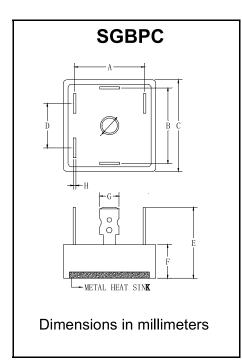


FIG4:Typical Reverse Characteristics





■ Outline Dimensions



	SGBPC					
Dim	Min	Max				
Α	23.3	24.3				
В	23.3	24.3				
С	28.2	28.8				
D	15.5	16.5				
E	/	25				
F	9	10				
G	6.2	6.4				
Н	0.75	0.85				



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