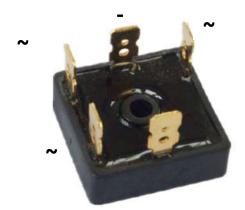
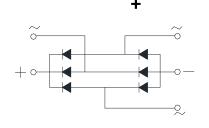
Three Phase Bridge Rectifiers





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)

					1				
PARAMETER	SYMBOL	UNIT	SGBPC3504	SGBPC3506	SGBPC350	8SGBPC35	0SGBPC35	2SGBPC35	14SGBPC3510
Device marking code			SGBPC3504	SGBPC3506	SGBPC350	8SGBPC351	0SGBPC351	2SGBPC351	4SGBPC3516
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	А	35						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25℃	IFSM	А	400						
Current Squared Time @1ms≤t≤8.3ms Tj=25 °C, Rating of per diode	l ² t	A ² S	660						
Storage Temperature	Tst	g	℃ -55~+150						
Junction Temperature	Tj	,	-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)

= Electrical Characteriones (18 = 5 = 1 = 5 = 1 = 1 = 5 = 1 = 1 = 1 = 1										
PARAMETER	SYMBOL	UNIT	SGBPC3504 SC	BPC3506	SGBPC35	08SGBPC	3510SGBF	C3512SGI	BPC3514S	GBPC351
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=17.5A				1.2			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM				10			

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

P	ARAMETER	SYMBOL	UNIT	SGBPC3504	SGBPC350	6 SGBPC35	08SGBPC35	10SGBPC3	512SGBPC3	514SGBPC3	3516
Thermal Resistance	Between junction and case, With heatsink	R θ J-C	°C/W				1.3				



■ Ordering Information (Example)

	PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
S	GGBPC3504~SGBPC3516	A1	Approximate 17.5	50	50	500	Paper Box	

■ Characteristics (Typical)

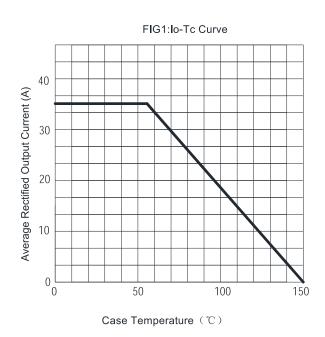


FIG2:Surge Forward Current Capability

450

Half-sine Wave

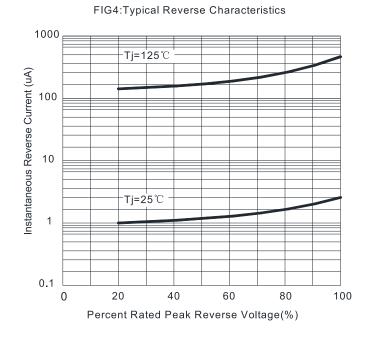
Ta=25°C

150

1 2 5 10 20 50 100

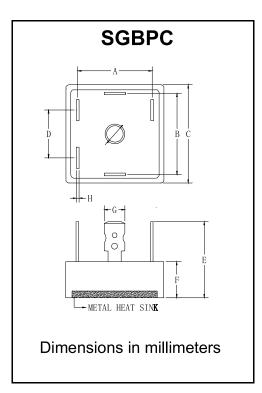
Number of Cycles

FIG3:Instantaneous Forward Voltage 60 Ta=25℃ 20 Instantaneous Forward Current (A) 10 5.0 1.0 0.5 0.2 0.1 - 0.4 0.6 8.0 1.0 1.2 1.4 Instantaneous Forward Voltage (V)





■ 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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