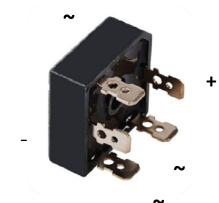
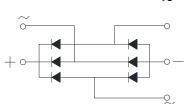


Three Phase Bridge Rectifiers





Features

- UL recognition, file #E230084
- 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: SKBPC

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

• Terminals: Tin plated leads,

solderable per

J-STD-002 and JESD22-B10

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

■ Waximum Ratings (Ta-25 © Offices Otherwise specified)									
PARAMETER	SYMBO	UNIT	SKBPC500	SKBPC5006	SKBPC5008	SKBPC5010	SKBPC5012	SKBPC5014	SKBPC5016
Device marking code			SKBPC500	SKBPC5006	SKBPC5008	SKBPC5010	SKBPC5012	SKBPC5014	SKBPC5016
Repetitive Peak Reverse Voltage	VRRM	٧	400	600	800	1000	1200	1400	1600
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink Tc=55°C	Ю	Α	50						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, T _a =25°C	IFSM	Α	500						
Current Squared Time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	l²t	A ² S	1040						
Storage Temperature	T _{stg}	°C	-55 ~+150						
Junction Temperature	Tj	°C	-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	TEST CONDITIONS	SKBPC5004~SKBPC5016			
Maximum instantaneous forward voltage drop per diode	VFM	V	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)

PA	RAMETER	SYMBOL	UNIT	SKBPC5004~SKBPC5016
Thermal Resistance	Between junction and case, With heatsink	R ₀ J-C	°C/W	0.9

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SKBPC5004~SKBPC5016	A1	Approximate 19	50	50	500	Paper Box

■ Characteristics (Typical)

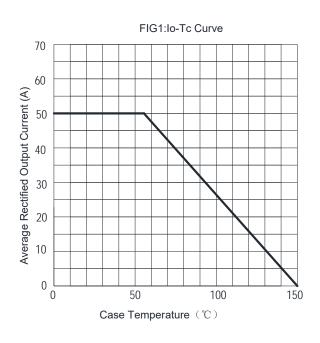


FIG2:Surge Forward Current Capability

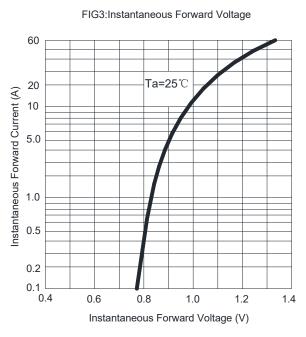
Half-sine Wave

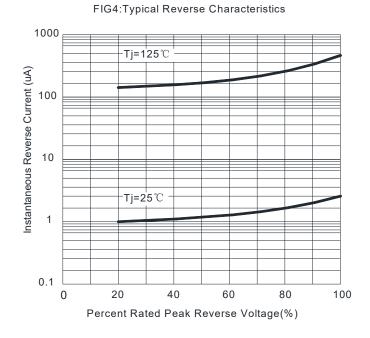
Half-sine Wave

Ta=25°C

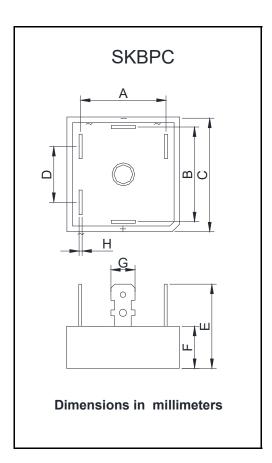
Ta=25°C

Number of Cycles





■ Outline Dimensions



SKBPC						
Dim	Min	Max				
Α	23.1	24.1				
В	23.1	24.1				
С	28.2	28.8				
D	16	17				
Е	/	25				
F	10.8	11.2				
G	6.2	6.4				
Н	0.75	0.85				



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