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

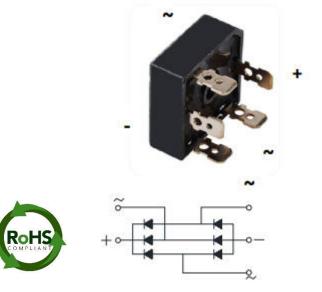
Package: SKBPC

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)

-maximum (varings (variations))									
PARAMETER	SYMBOL	UNIT	SKBPC3504	SKBPC3506	SKBPC3508	SKBPC3510	SKBPC3512	SKBPC3514	SKBPC3516
Device marking code			SKBPC3504	SKBPC3506	SKBPC3508	SKBPC3510	SKBPC3512	SKBPC3514	SKBPC3516
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	Ю	Α	35						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, Ta=25℃	IFSM	А	425						
Current Squared Time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	I ² t	A ² S	750						
Storage Temperature	Tstg	$^{\circ}\!$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55 ~+150						
Dielectric Strength, Terminals to case, AC 1 minute	V _{dis}	KV	2.5						
Mounting Torque	TOR	kg⋅cm	10						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SKBPC35 06	SKBPC35 08	SKBPC35 08	SKBPC35 10	SKBPC35 12	SKBPC35 14	SKBPC35 16
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	μA	VRM=VRRM	10						

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

PAI	RAMETER	SYMBOL	UNIT	SKBPC3506	SKBPC3508	SKBPC3508	SKBPC3510	SKBPC3512	SKBPC3514	SKBPC3516
Ihormal	Between junction and case, With heatsink	R θ J-C	°C/W				1.35			

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SKBPC3504~SKBPC3516	A1	Approximate 19	50	50	500	Paper Box

■ Characteristics (Typical)

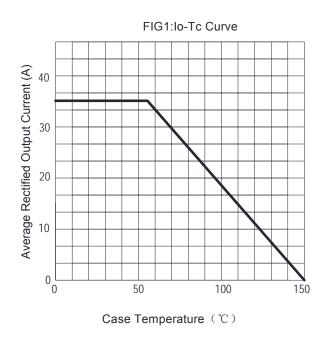
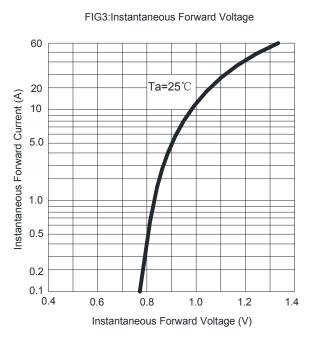
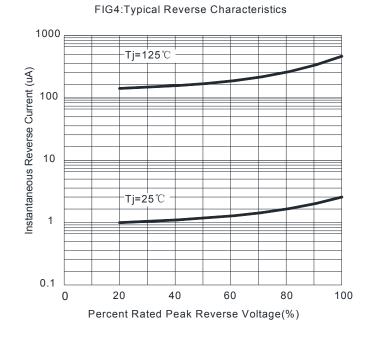
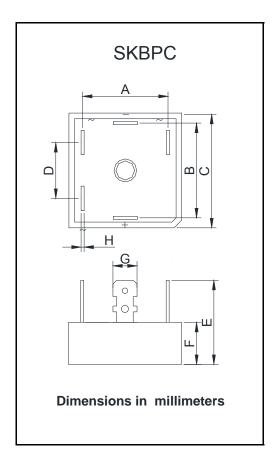


FIG2:Surge Forward Current Capability 450 Half-sine Wave Peak Forward Surge Current (A) 300 non-repetitive Ta=25℃ 150 0 2 5 10 20 50 100 Number of Cycles





■ Outline Dimensions



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

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