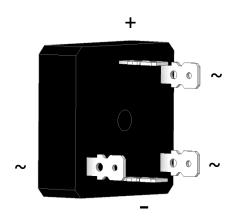
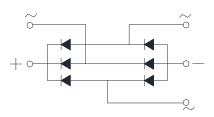
Three Phase Bridge Rectifiers





Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for Server、Frequency converter、Industrial power supply.

Mechanical Data

• Package: SKBPC75

Molding compound meets UL 94 V-0 flammability

rating

• Terminals: Nickel plated leads, solderable per

J-STD-002 and JESD22-B102

• Polarity: As marked on body

■ Maximum Ratings (T_a = 25 $^{\circ}$ C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SKBPC7506	SKBCP7508	SKBPC7510	SKBPC7512	SKBPC7514	SKBPC7516
Device marking code			SKBPC7506	SKBCP7508	SKBPC7510	SKBPC7512	SKBPC7514	SKBPC7516
Maximum Repetitive Peak Reverse Voltage	VRRM	V	600	800	1000	1200	1400	1600
Maximum RMS Voltage	VRMS	V	420	560	700	840	980	1120
Maximum DC blocking Voltage	VDC	V	600	800	1000	1200	1400	1600
Average rectified output current @60Hz sine wave, R-load With heatsink Tc =85°C	lo	Α	75					
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	IFSM	Α	800					
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	l²t	A ² s	2656					
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 @Recommend torque: 5kg·cm	Tor	kg·cm	8					

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

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PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SKBPC7506	SKBCP7508	SKBPC7510	SKBPC7512	SKBPC7514	SKBPC7516
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=37.5A	1.1				1.	2
Maximum DC reverse	l IR		T _j =25°C	;j=25°C 5					
current at rated DC blocking IR μ voltage per diode		μA	T _j =125°C	500					
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	315					

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

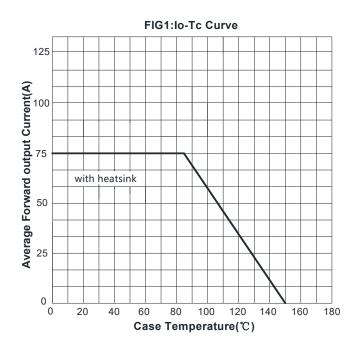
PARAMETER		SYMBOL	UNIT	SKBPC7506	SKBCP7508	SKBPC7510	SKBPC7512	SKBPC7514	SKBPC7516
Thermal	Between junction and ambient, Without heatsink	RθJ-A RθJ-C °C/W		16.0					
Resistance	Between junction and case, With heatsink			0.75					

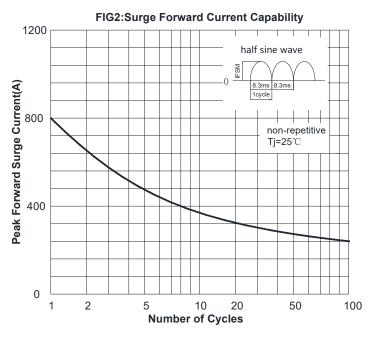
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

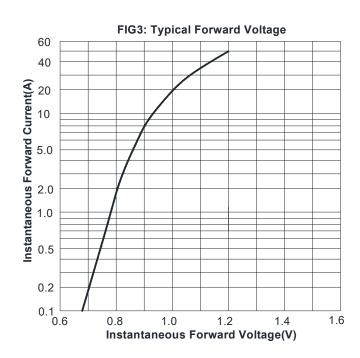
■Ordering Information (Example)

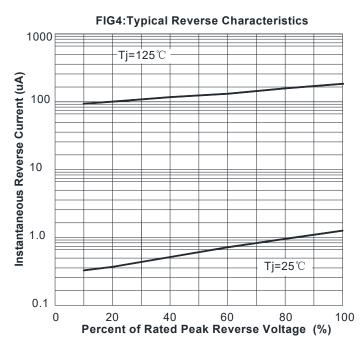
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SKBPC7506 – SKBPC7516	A1	Approximate 32.5	50	50	500	Paper Box

■ Characteristics (Typical)

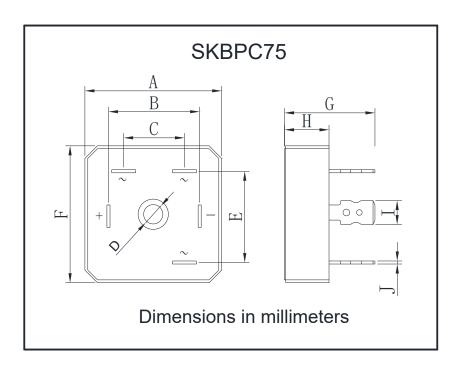








■ Outline Dimensions



SKBPC75						
Dim	Min	Max				
Α	35.5	36.5				
В	23.5	24.5				
С	15.5	16.5				
D	4.5	5.5				
E	23.5	24.5				
F	35.5	36.5				
G	22.5	24.5				
Н	11.2	12.2				
I	6.1	6.5				
J	0.6	1.0				



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