



## Three Phase Bridge Rectifiers

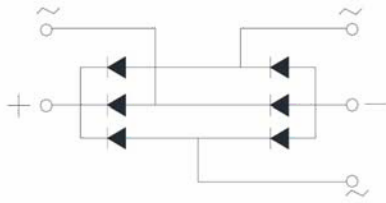


### Features

- UL recognition, file #E230084
- Low thermal resistance
- Glass passivated chip junction
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

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

**Polarity:** As marked on body



### Maximum Ratings (T<sub>a</sub>=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SKBPC1504	SKBPC1506	SKBPC1508	SKBPC1510	SKBPC1512	SKBPC1514	SKBPC1516
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Device marking code

SKBPC1504 SKBPC1506 SKBPC1508 SKBPC1510

Maximum RMS Voltage	V <sub>RMS</sub>	V	280	420	560	700	840	980	1120
Maximum DC blocking Voltage	V <sub>DC</sub>	V	400	600	800	1000	1200	1400	1600
Average rectified output current @60Hz sine wave, R-load	With heatsink T <sub>c</sub> =125	I <sub>O</sub>	A	15					
Forward Surge Current (Non-repetitive) @8.3ms,Half-sine wave,1 cycle, T <sub>j</sub> =25				300					
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T <sub>j</sub> =25	IFSM	A	600						
Current squared time @1ms t 8.3ms T <sub>j</sub> =25 , Rating of per diode			I <sup>2</sup> t	A <sup>2</sup> s	374				
Storage temperature	T <sub>stg</sub>		-55 ~ +150						
Junction temperature	T <sub>j</sub>		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute	V <sub>dis</sub>	KV	2.5						
Mounting torque @ Recommend torque 5kg cm	T <sub>or</sub>	kg cm	8						



# SKBPC1504 THRU SKBPC1516

**Electrical Characteristics**  $T_a=25$  Unless otherwise specified

	SYMBOL	UNIT	TEST CONDITIONS	SKBPC1504	SKBPC1506	SKBPC1508	SKBPC1510	SKBPC1512	SKBPC1514	SKBPC1516
Forward Voltage	V <sub>F</sub>	V	I <sub>FM</sub> =7.5A	1.0						
Reverse Current	I <sub>R</sub>	μA	T <sub>j</sub> =25	5						
			T <sub>j</sub> =125	500						
	C <sub>j</sub>	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	175					145	

PARAMETER

SYMBOL



# SKBPC1504 THRU SKBPC1516

FIG3: Typical Forward Voltage

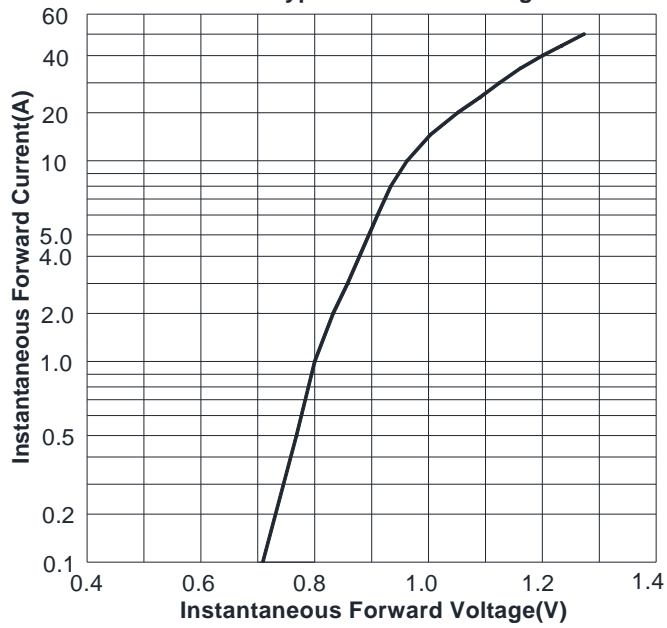
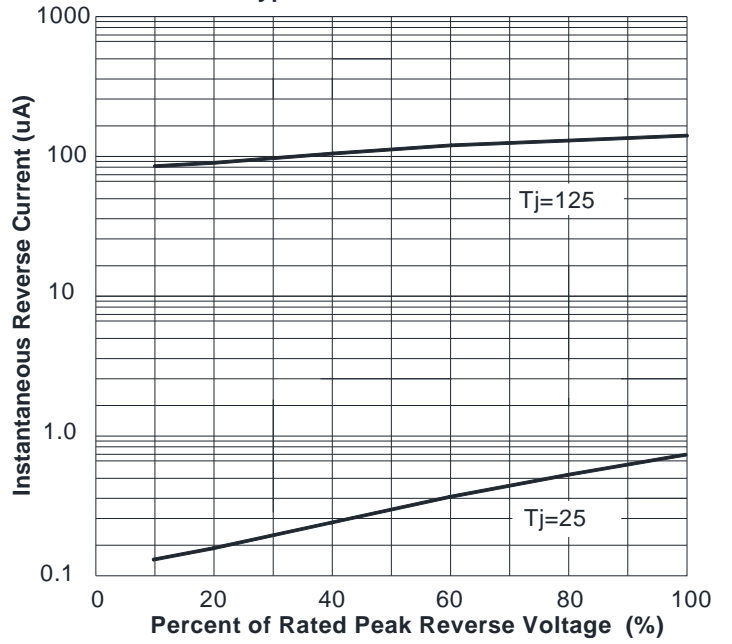
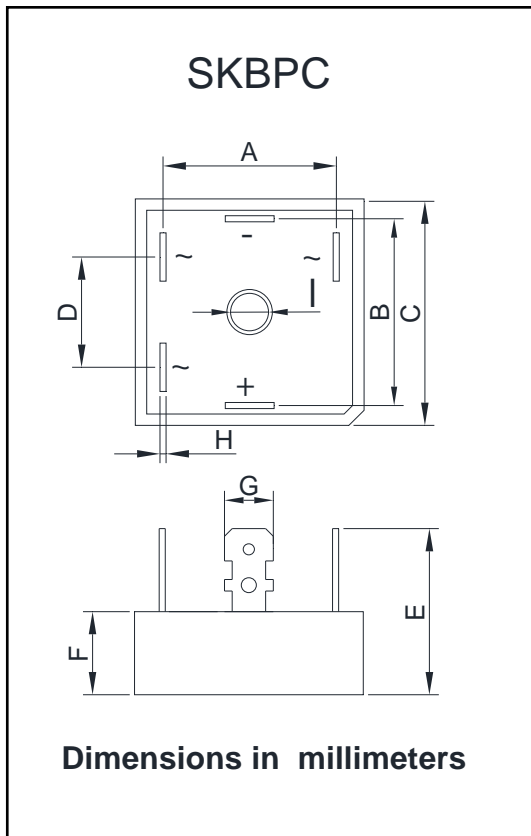


FIG4: Typical Reverse Characteristics



## Outline Dimensions



SKBPC		
Dim	Min	Max
A	23.1	24.1
B	23.1	24.1
C	28.2	28.8
D	16.0	17.0
E	/	25
F	10.8	11.2
G	6.2	6.4
H	0.75	0.85
I	4.5	5.5



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