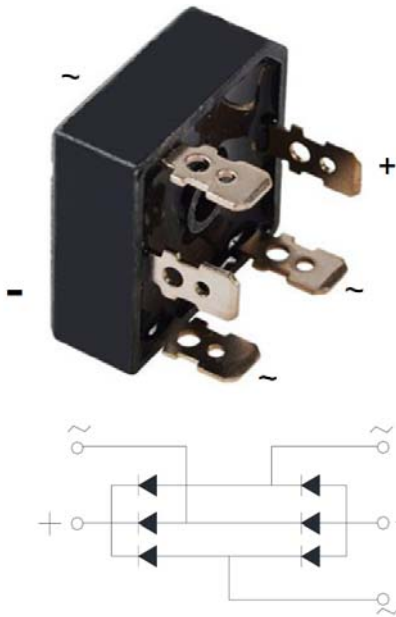


SKBPC2504 THRU SKBPC2516

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

Typical Applications

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

Mechanical Data

- **Package:** SKBPC
Molding compound meets UL 94 V-0 flammability rating, -
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

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

PARAMETER	SYMBOL	UNIT	SKBPC2504	SKBPC2506	SKBPC2508	SKBPC2510	SKBPC2512	SKBPC2514	SKBPC2516
Device marking code			SKBPC2504	SKBPC2506	SKBPC2508	SKBPC2510	SKBPC2512	SKBPC2514	SKBPC2516
Maximum Repetitive Peak Reverse Voltage	VRRM	V	400	600	800	1000	1200	1400	1600
Maximum RMS Voltage	VRMS	V	280	420	560	700	840	980	1120
Maximum DC blocking Voltage	VDC	V	400	600	800	1000	1200	1400	1600
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =110°C IO	A	25						
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave, 1 cycle, Tj=25°C	IFSM	A	360						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C			720						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I²t	A²s	538						
Storage temperature	Tstg	°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						

SKBPC2504 THRU SKBPC2516

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SKBPC2504	SKBPC2506	SKBPC2508	SKBPC2510	SKBPC2512	SKBPC2514	SKBPC2516
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =12.5A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25°C	5						
			T _j =125°C	500						
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	175					145	

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

PARAMETER		SYMBOL	UNIT	SKBPC2504	SKBPC2506	SKBPC2508	SKBPC2510	SKBPC2512	SKBPC2514	SKBPC2516
Typical Thermal Resistance	Between junction and case, With heatsink	R _{θJ-C}	°C/W	1.5						

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
SKBPC2504 ~ SKBPC2516	A1	Approximate 19	50	50	500	Paper Box

■ Characteristics (Typical)

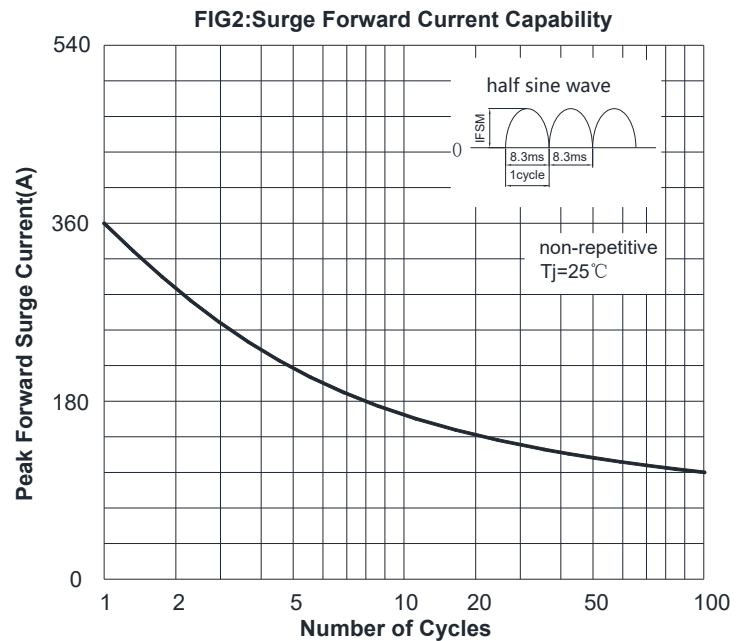
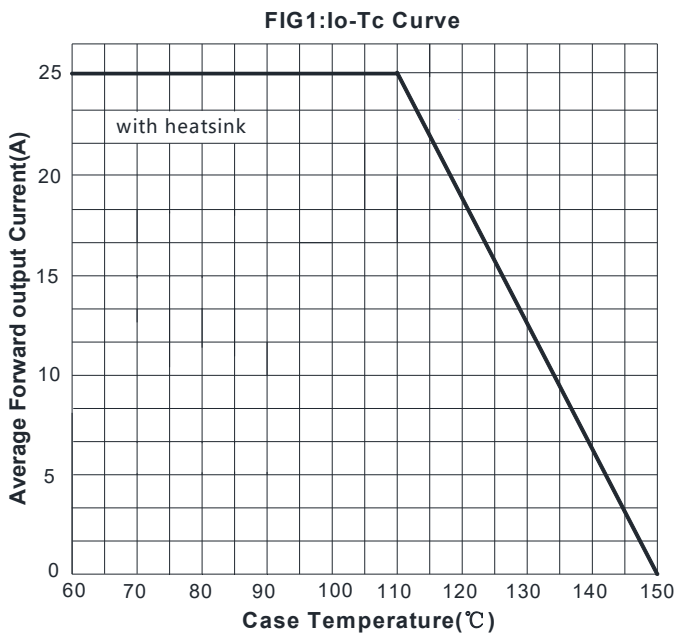


FIG3: Typical Forward Voltage

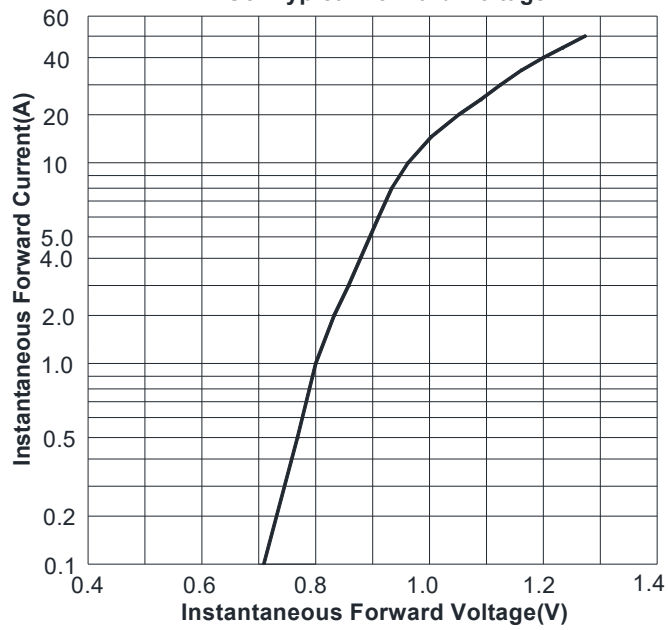
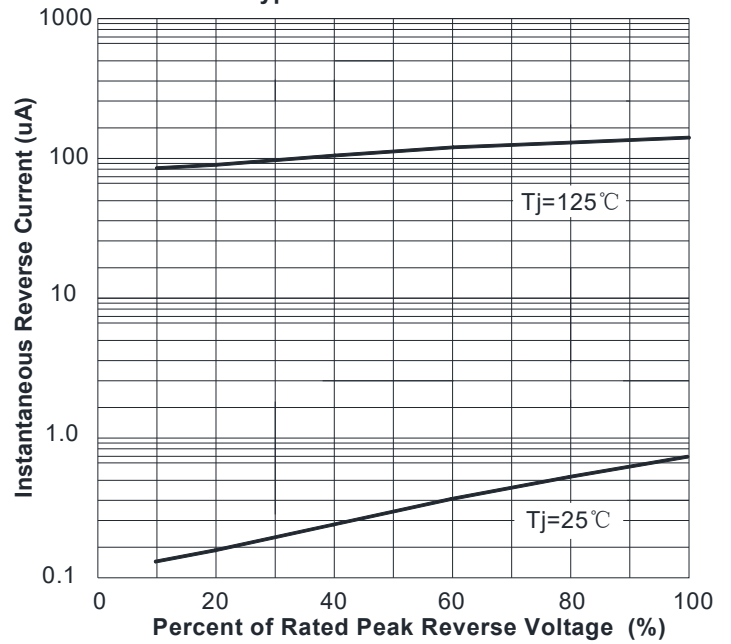
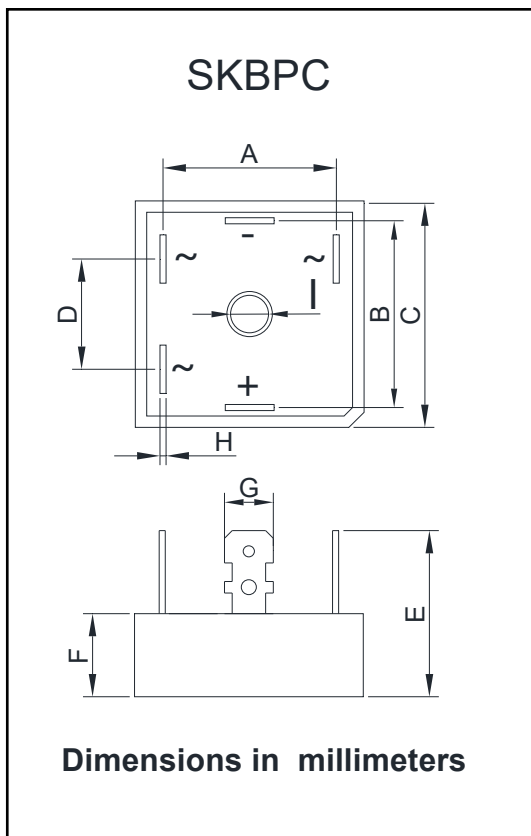


FIG4: Typical Reverse Characteristics



■ 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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