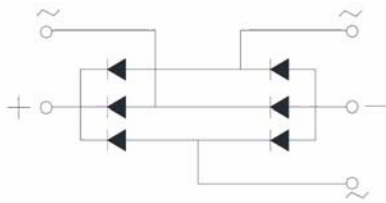
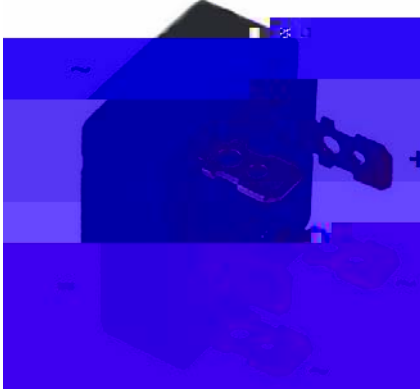




Three Phase Bridge Rectifiers



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_a=25 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	IO	A	25						
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25		IFSM	A	360						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				720						
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode		I²t	A²s	538						
Storage temperature		Tstg		-55 ~ +150						
Junction temperature		Tj		-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 $T_a=25$ 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	$T_j=25$	5						
			$T_j=125$	500						
Typical junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	175					145	

■Thermal Characteristics $T_a=25$ Unless otherwise specified

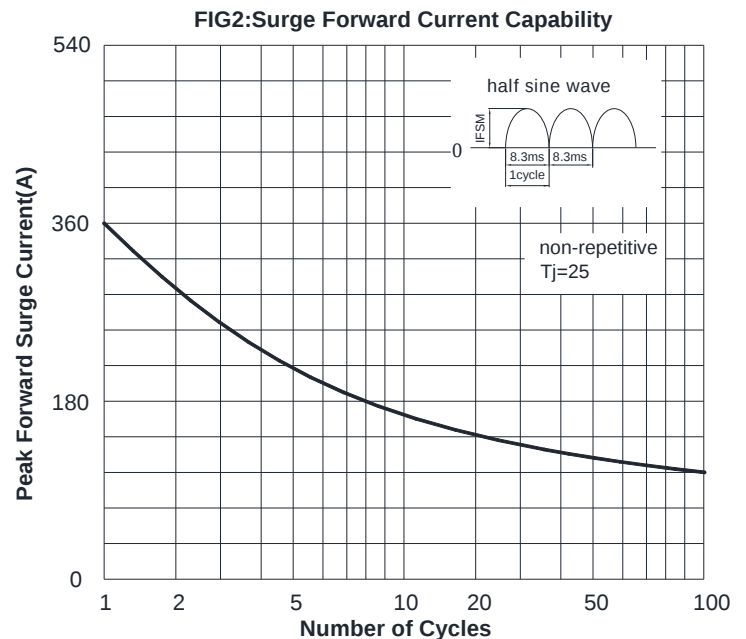
PARAMETER		SYMBOL	UNIT	SKBPC2504	SKBPC2506	SKBPC2508	SKBPC2510	SKBPC2512	SKBPC2514	SKBPC2516
Typical Thermal Resistance	Between junction and case, With heatsink	$R_{\theta J-C}$	/W	1.5						

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

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SKBPC2504 ~ SKBPC2516	A1	Approximate 19	50	50	500	Paper Box

■ Characteristics (Typical)





SKBPC2504 THRU SKBPC2516

FIG3: Typical Forward Voltage

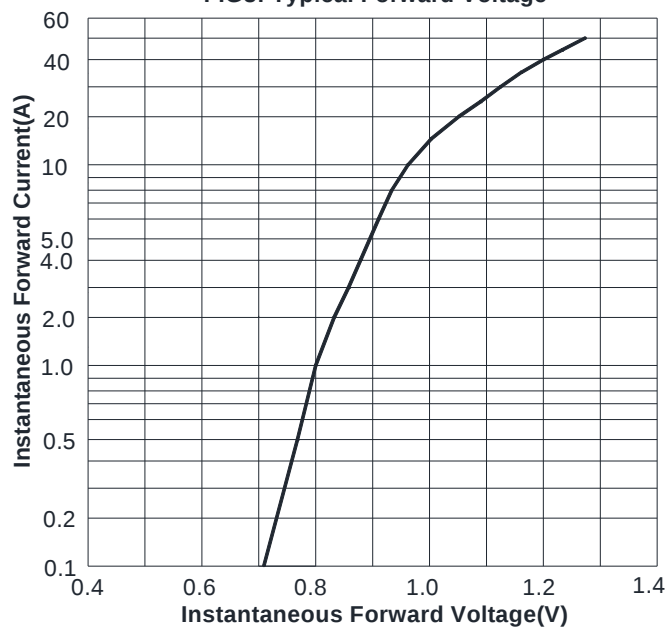
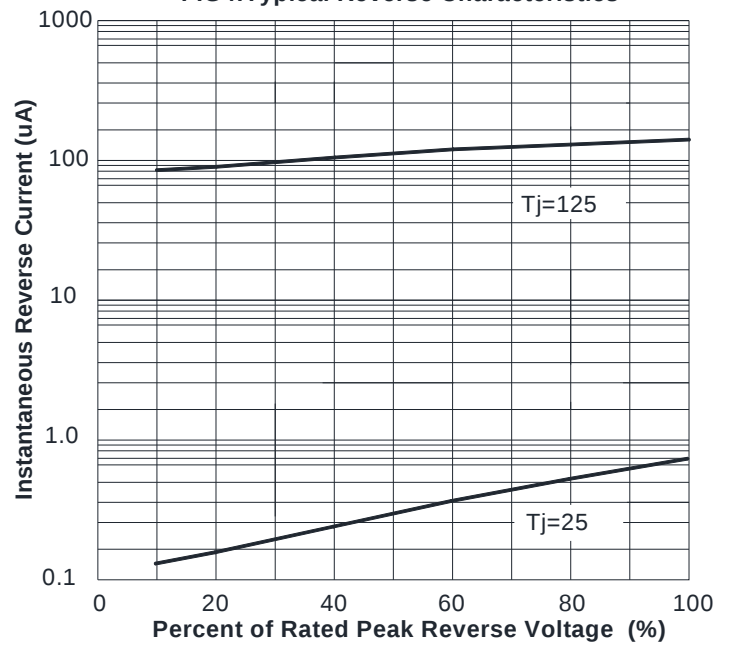


FIG4: Typical Reverse Characteristics



■ 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



Disclaimer

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