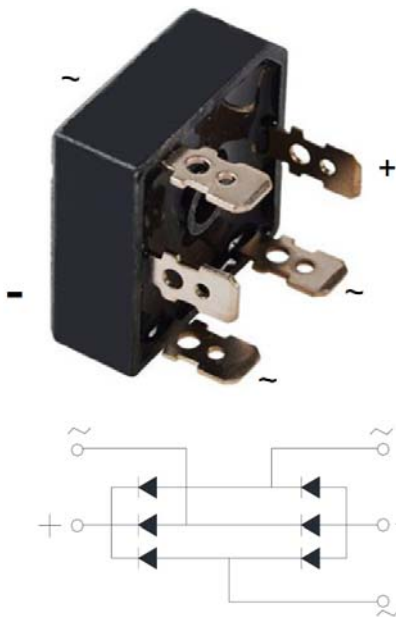


Three Phase Bridge Rectifiers



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 (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SKBPC5018
Device marking code				SKBPC5018
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	V	1800
Maximum RMS Voltage		V _{RMS}	V	1260
Maximum DC blocking Voltage		V _{DC}	V	1800
Average rectified output current @60Hz sine wave, R-load	With heatsink T _c =55°C	I _O	A	50
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, T _j =25°C		I _{FSM}	A	500
Current squared time @1ms≤t≤8.3ms T _j =25°C, Rating of per diode		I ² t	A ² s	1038
Storage temperature		T _{stg}	°C	-55 ~ +150
Junction temperature		T _j	°C	-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute		V _{dis}	KV	2.5
Mounting torque @Recommend torque: 5kg·cm		Tor	kg·cm	8

SKBPC5018

■Electrical Characteristics (T_a=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SKBPC5018
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =25A	1.15
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

■Thermal Characteristics (T_a=25℃ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SKBPC5018
Typical Thermal Resistance	Between junction and case, With heatsink	R _{θJ-C}	℃/W	0.9

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

■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SKBPC5018	A1	Approximate 19	50	50	500	Paper Box

■ Characteristics (Typical)

FIG1:I_o-T_c Curve

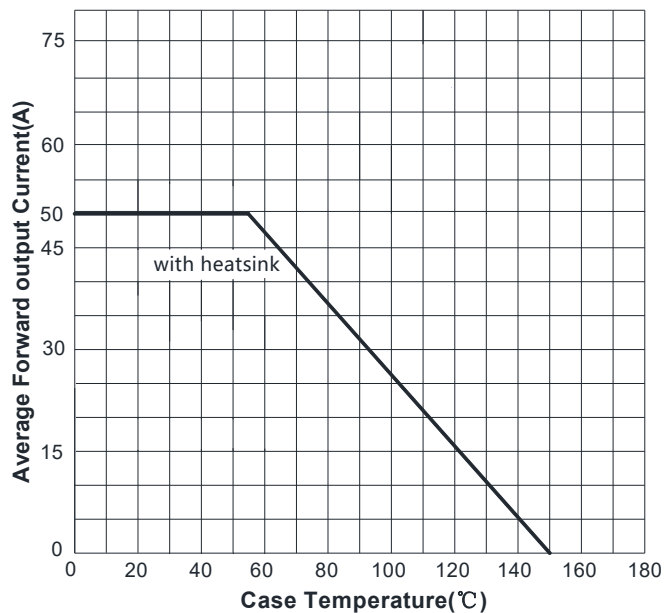


FIG2:Surge Forward Current Capability

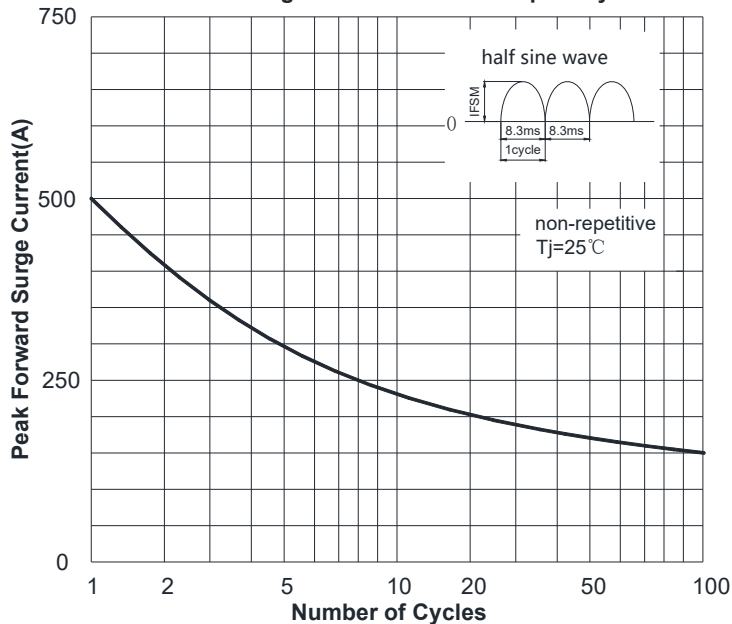


FIG3: Typical Forward Voltage

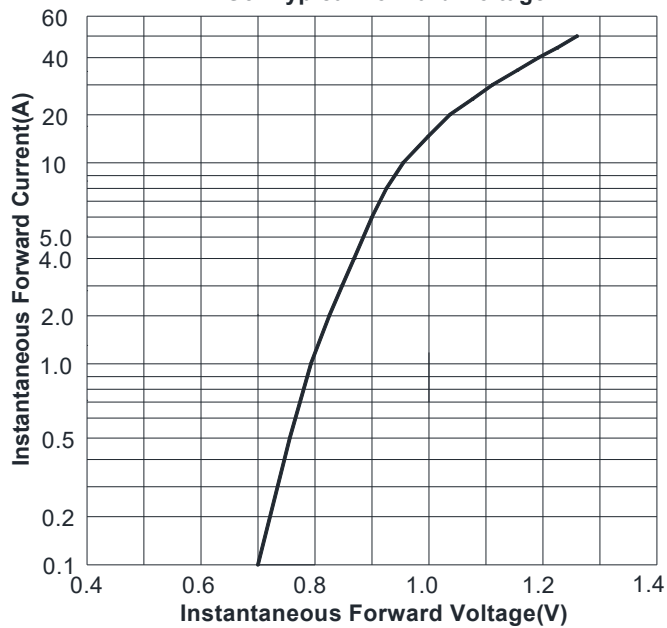
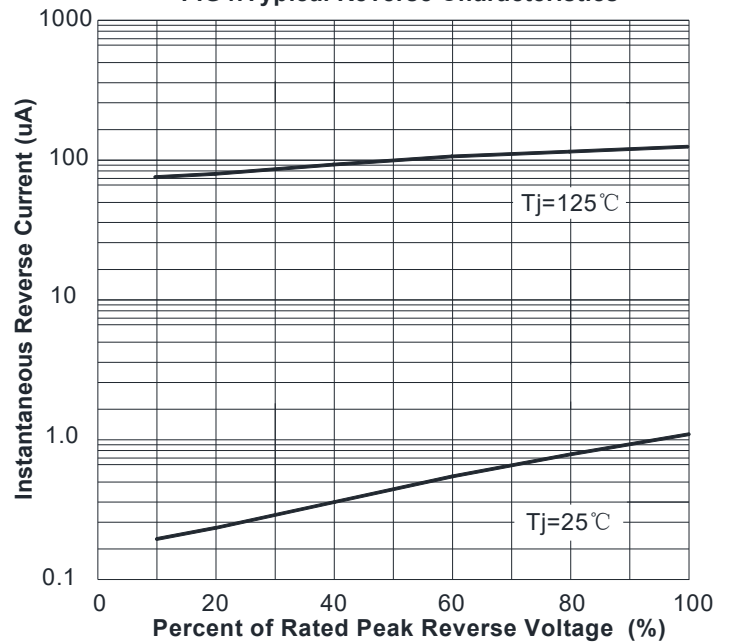
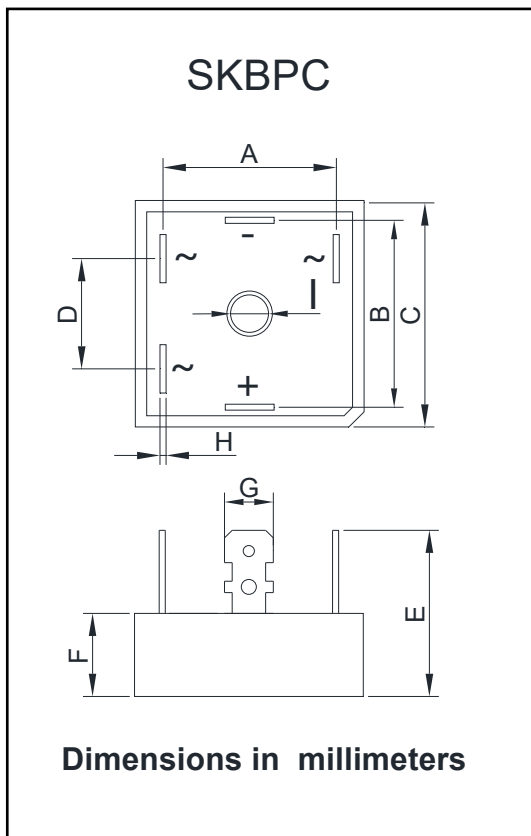


FIG4: Typical Reverse Characteristics



■ 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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