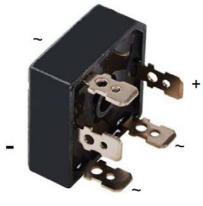
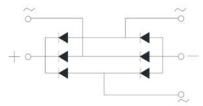


### **SKBPC5018**



# **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, RoHS-compliant

• 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	SKBPC5018	
Device marking code				SKBPC5018	
Maximum Repetitive Peak Reverse Voltage		VRRM	V	1800	
Maximum RMS Voltage		VRMS	V	1260	
Maximum DC blocking Voltage		VDC	V	1800	
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =55°C	IO	А	50	
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C		IFSM	А	500	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A <sup>2</sup> s	1038	
Storage temperature		T <sub>stg</sub>	°C	-55 ~ +150	
Junction temperature		Tj	℃	-55 ~ <b>+</b> 150	
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5	
Mounting torque @Recommend torque: 5kg·cm		Tor	kg∙ cm	8	



## **SKBPC5018**

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SKBPC5018
Maximum instantaneous forward voltage drop per diode	VF	>	IFM=25A	1.15
Maximum DC reverse current at rated DC blocking voltage per diode	lR	μΑ	T <sub>j</sub> =25°C	5
			T <sub>j</sub> =125°C	500
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	175

### **■Thermal Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

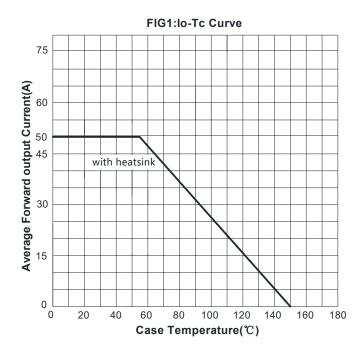
PARAMETER		SYMBOL	UNIT	SKBPC5018
Typical Thermal Resistance	Between junction and case, With heatsink	R0J-C	°C/W	0.9

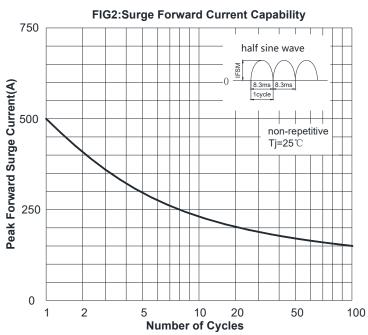
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

**■Ordering Information** (Example)

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

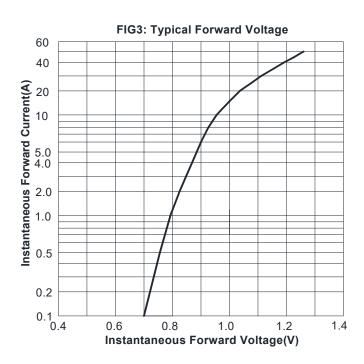
### **■ Characteristics** (Typical)

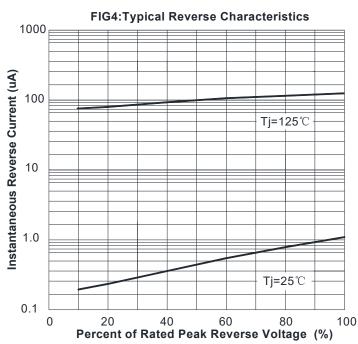




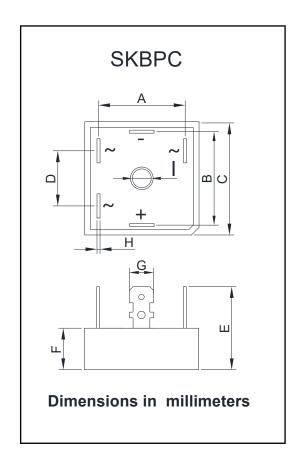








### **■ Outline Dimensions**



SKBPC					
Dim	Min	Max			
Α	23.1	24.1			
В	23.1	24.1			
С	28.2	28.8			
D	16.0	17.0			
Е	1	25			
F	10.8	11.2			
G	6.2	6.4			
Н	0.75	0.85			
I	4.5	5.5			



### **SKBPC5018**

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