

**High Current Glass Passivated Molding Three-Phase Bridge Rectifier**

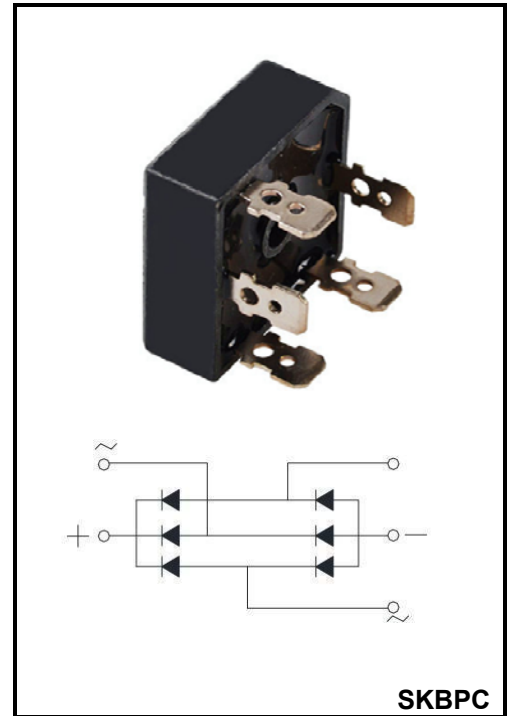
**Voltage - 1000 to 1800 V**  
**Forward Current –50 A**

**FEATURES**

- ◆The plastic package has Underwriters Laboratory flammability recognition 94V-0
- ◆Integrally molded heatsink provide very low thermal resistance for maximum heat dissipation
- ◆Universal 3\_way terminals; snap\_on, wire wrap\_around, or P.C. Board mounting
- ◆Surge overload ratings to 400 Amperes
- ◆Glass passivated chip junctions
- ◆High temperature soldering guaranteed: 260°C/10 seconds at 5lbs., (2.3kg)tension

**MECHANICAL DATA**

- ◆Case:SKBPC,
- ◆Terminals: Solderable per MIL-STD-202, Method208
- ◆Approx. Weight: 16.5g



**Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	SKBPC 5010	SKBPC 5012	SKBPC 5016	SKBPC 5018	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	1200	1600	1800	V
Maximum RMS voltage	$V_{RMS}$	700	840	1120	1400	V
Maximum DC Blocking Voltage	$V_{DC}$	1000	1200	1600	1800	V
Maximum Average Forward Rectified Current ,50Hz Sine wave resistance load $T_c=85^{\circ}C$	$I_{(AV)}$	50				A
Peak Surge forward Current ,Non-repetitive 50Hz 10ms Sine wave $T_j=25^{\circ}C$	$I_{FSM}$	500				A
Maximum Forward Voltage 25A	$V_F$	1.05				V
Maximum Reverse Current $V_R=V_{RM}$	$I_R$	10				$\mu A$
Dielectric strength Terminals to case AC 1 minute	$V_{dia}$	2				KV
Thermal Resistance Junction Case	$Q_{JC}$	1.5				$^{\circ}C/W$
Storage Temperature	$T_{stg}$	-40 ~ 150				$^{\circ}C$
Openrating junction Temperature	$T_j$	150				$^{\circ}C$

Characteristics (Typical)

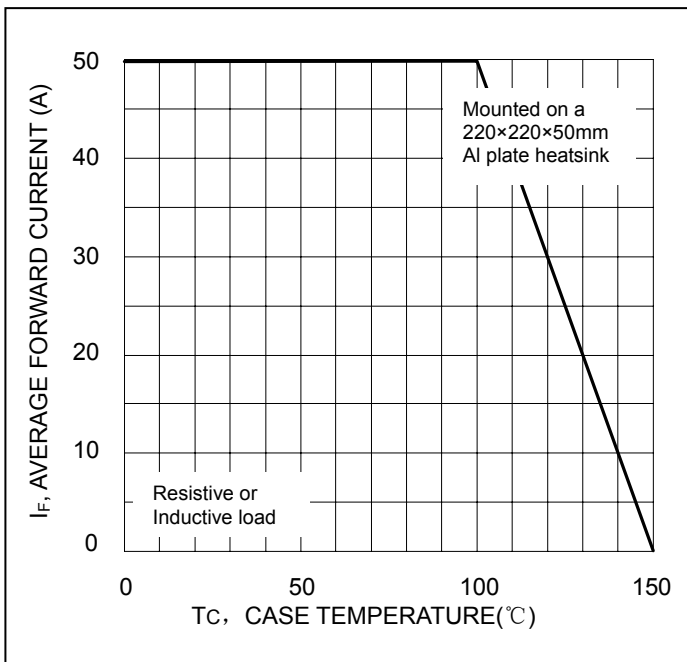


Fig. 1 Forward Current Derating Curve

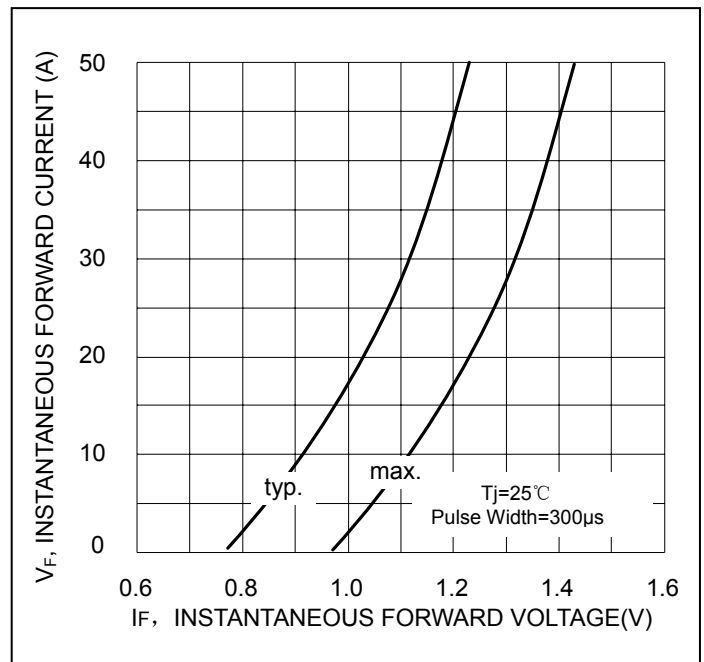


Fig.2 Typical Forward Characteristics

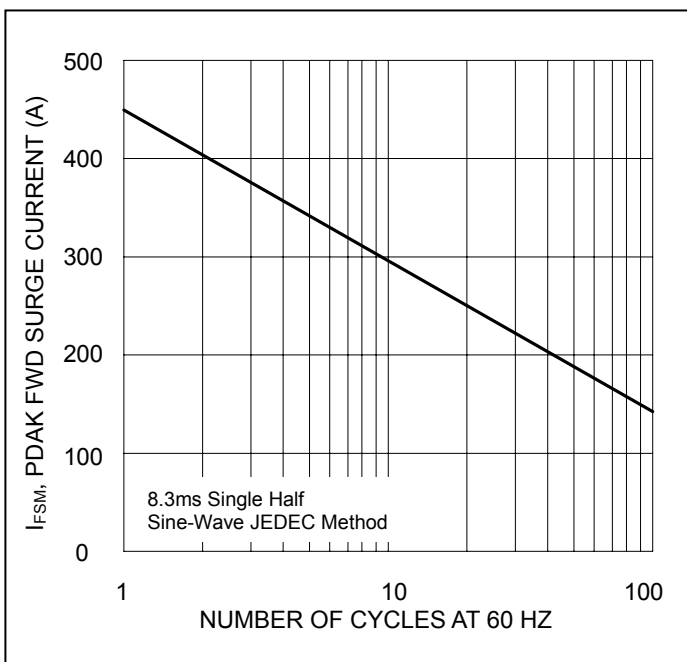


Fig.3 Max Non-Repetitive Peak Surge Current

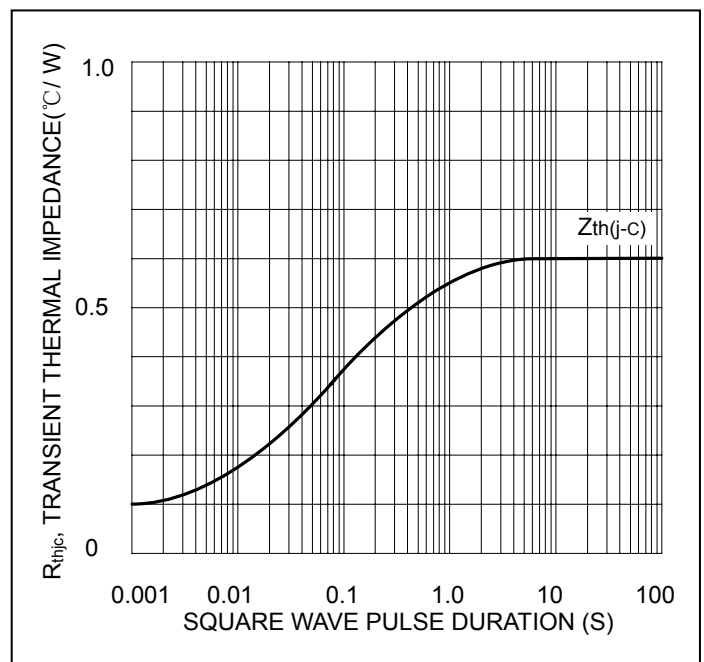
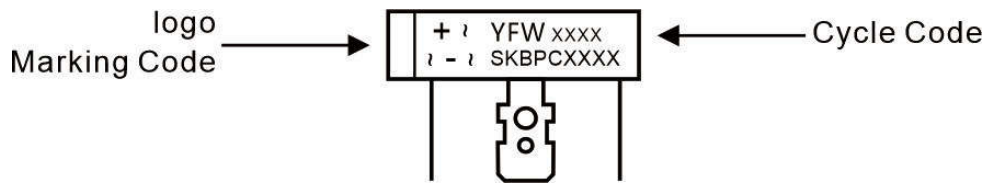


Fig.4. Transient thermal impedance

**Marking Diagram**



**Ordering information**

Package	Packing Description	Packing Quantity
SKBPC	bulk	50PCS/Box 500PCS/Carton

**Package Dimensions**

**SKBPC**

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	23.1	24.1	0.91	0.95
B	23.1	24.1	0.91	0.95
C	28.2	28.8	1.11	1.13
D	16	17	0.63	0.67
E	22	24	0.87	0.94
F	9.4	10	0.37	0.39
G	6.2	6.4	0.24	0.25
H	0.75	0.85	0.03	0.03

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