

**HIGH CURRENT GLASS PASSIVATED SINGLE_PHASE
BRIDGE RECTIFIR**

Voltage - 800 to 1800 V

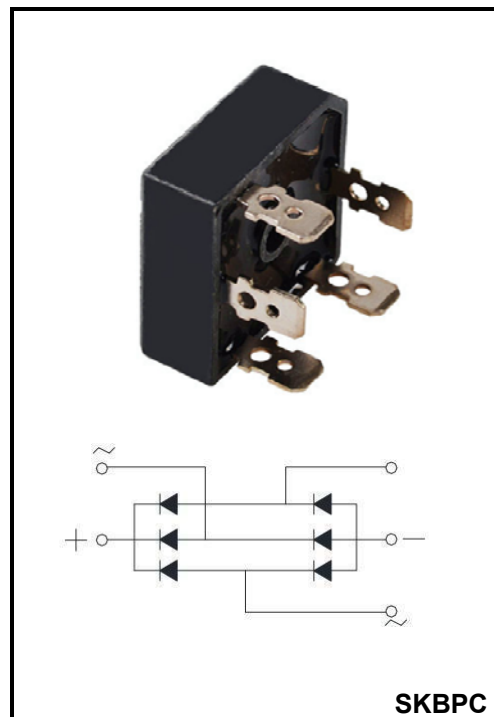
Forward Current -15 A

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: SKBPC15g



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	SKBPC 1508	SKBPC 1510	SKBPC 1512	SKBPC 1516	SKBPC 1518	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	800	1000	1200	1600	1800	V
Maximum RMS voltage	V_{RMS}	560	700	840	1120	1400	V
Maximum DC Blocking Voltage	V_{DC}	800	1000	1200	1600	1800	V
Average rectified forward current,50Hz Sine wave resistance load $T_c=85^{\circ}C$	I_o	15					A
Peak Surge forward Current Non-repetitive 50Hz 10ms Sine wave $T_j=25^{\circ}C$	I_{FSM}	400					A
Dielectric strength,Terminals to case AC 1 minute	V_{dia}	2.5					kv
Forward Voltage $I_F=12.5A$	V_F	1.05					V
Reverse current	I_R	10					μA
Thermal reslstance,Junction to Case	$R_{\theta JC}$	1.5					$^{\circ}C/W$
Storage Temperature	T_{stg}	-40 ~ 150					$^{\circ}C$
Openrating junction Temperature	T_j	150					$^{\circ}C$

Characteristics (Typical)

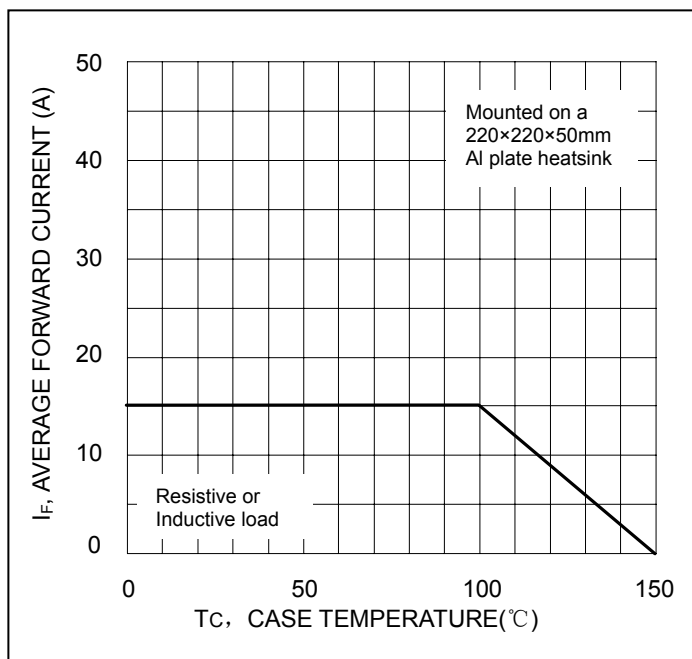


Fig. 1 Forward Current Derating Curve

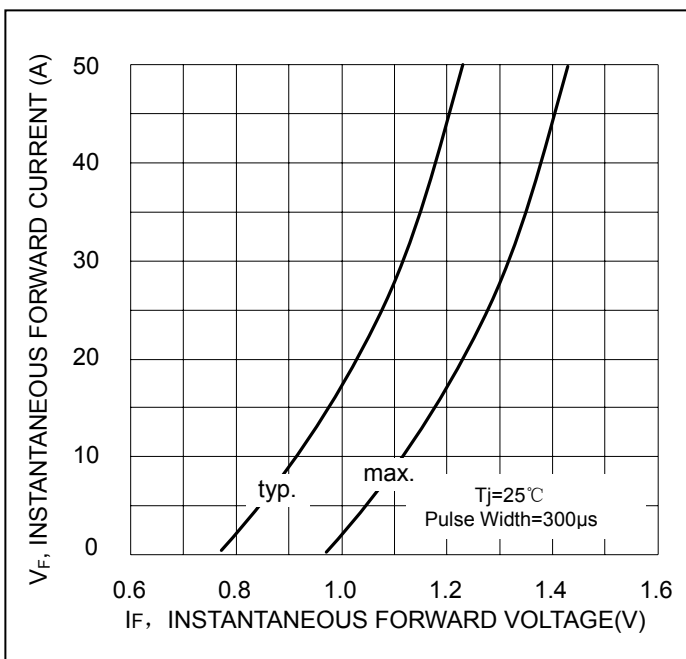


Fig.2 Typical Forward Characteristics

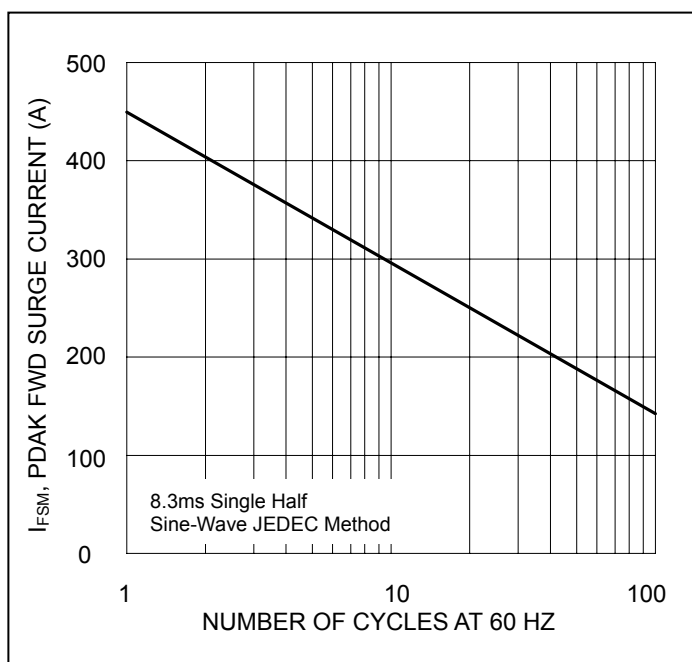


Fig.3 Max Non-Repetitive Peak Surge Current

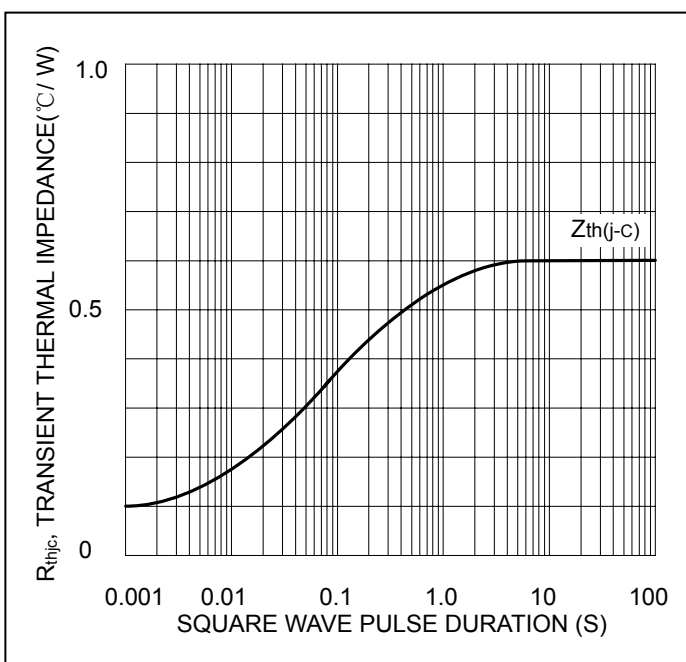
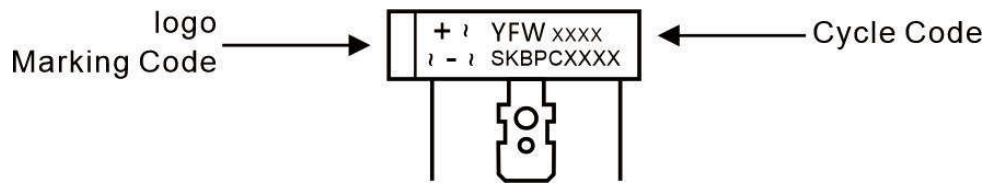


Fig.4. Transient thermal impedance

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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