

High Current Glass Passivated Molding Three-Phase Bridge Rectifier

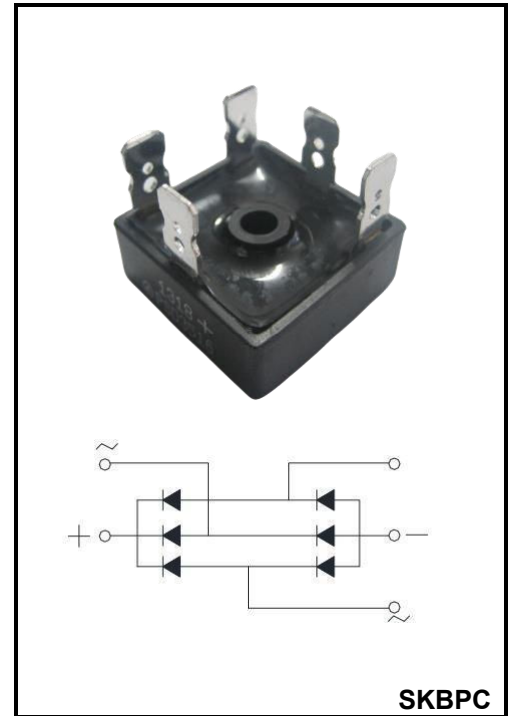
Voltage - 1000 to 1800 V
Forward Current –50 A

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				μA
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)

FIG1:Io-Tc Curve

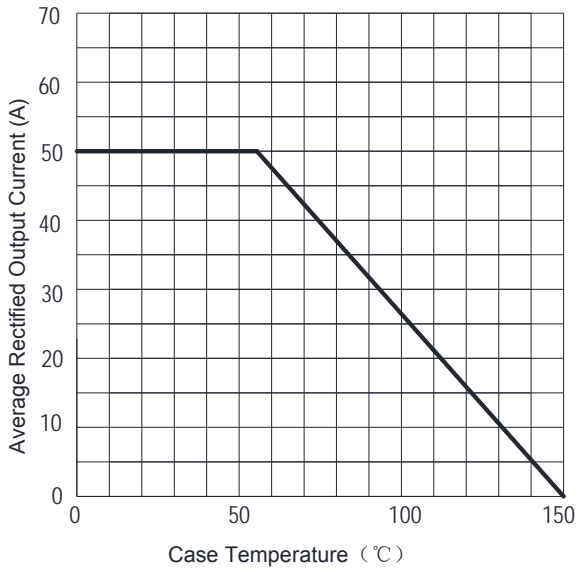


FIG2:Surge Forward Current Capability

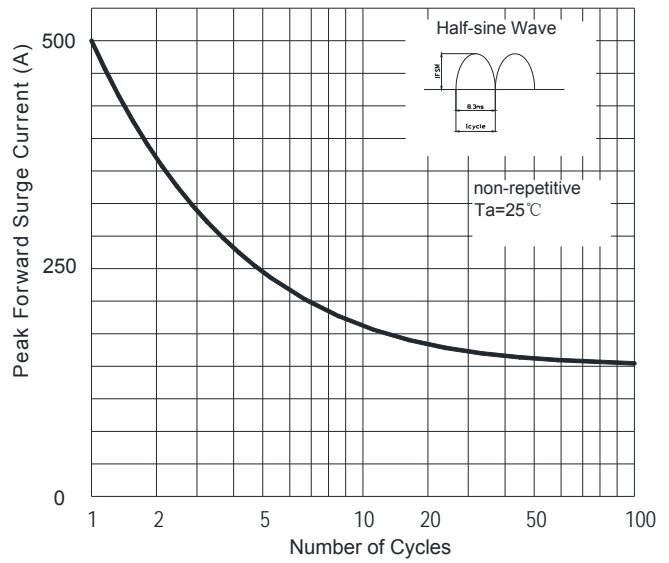


FIG3:Instantaneous Forward Voltage

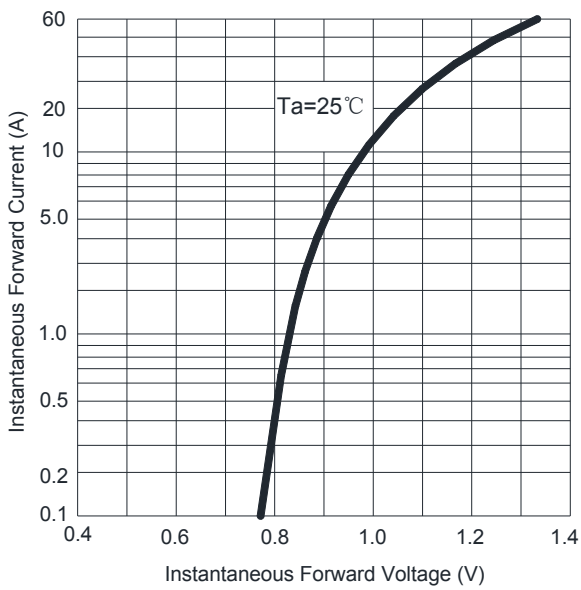
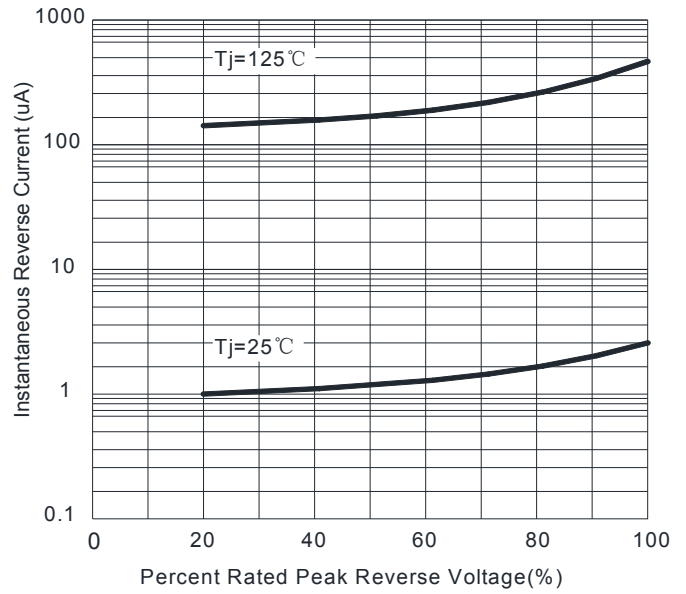
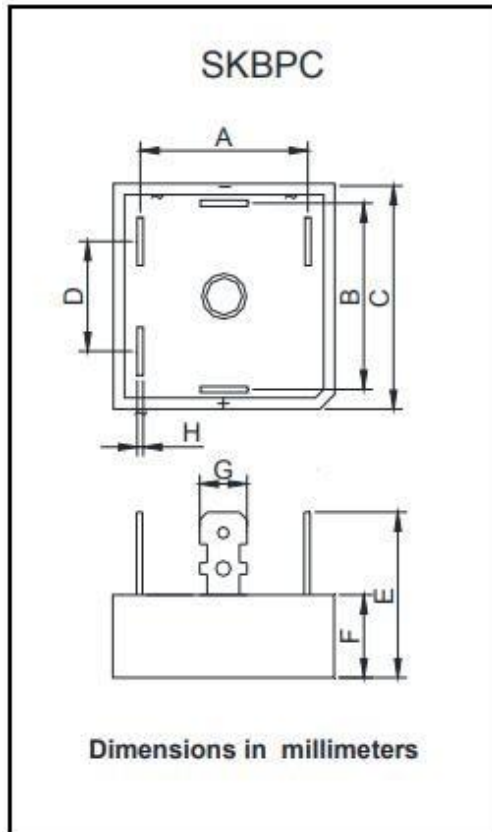


FIG4:Typical Reverse Characteristics



Package Outline

SKBPC



SKBPC		
Dim	Min	Max
A	23.1	24.1
B	23.1	24.1
C	28.2	28.8
D	16	17
E	/	25
F	9.4	10
G	6.2	6.4
H	0.75	0.85

Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
SKBPC	BOX	50	EIA-481-1

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