



Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

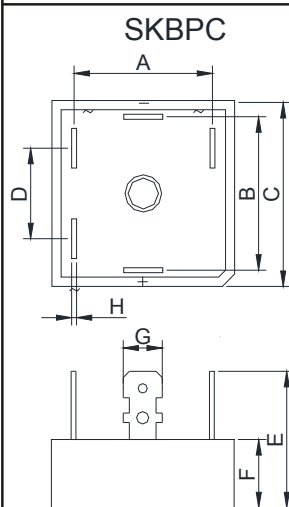
- **Package:** SKBPC
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B10

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

50.0 Ampere



Dimensions in millimeters

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	10.8	11.2
G	6.2	6.4
H	0.75	0.85

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SKBPC 50005	SKBPC 5001	SKBPC 5002	SKBPC 5004	SKBPC 5006	SKBPC 5008	SKBPC 5010	SKBPC 5012	SKBPC 5014	SKBPC 5016	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	1200	1400	1600	V
Maximum RMS Voltage	35	70	140	280	420	560	700	840	980	1120	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	1200	1400	1600	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Tc=50°C	50.0										A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	500										A
Maximum Forward Voltage Drop per Bridge Element at 25A D.C.	1.2										V
Maximum DC Reverse Current Ta=25 C	10										uA
at Rated DC Blocking Voltage Ta=100°C	100										uA
Operating Temperature Range, Tj	-65 — +150										°C
Storage Temperature Range, Tstg	-65 — +150										°C

RATING AND CHARACTERISTIC CURVES (SKBPC50005 THRU SKBPC5016)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

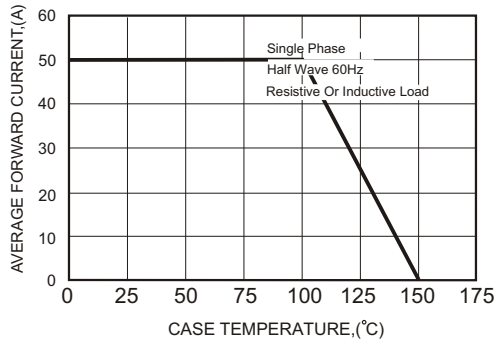


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

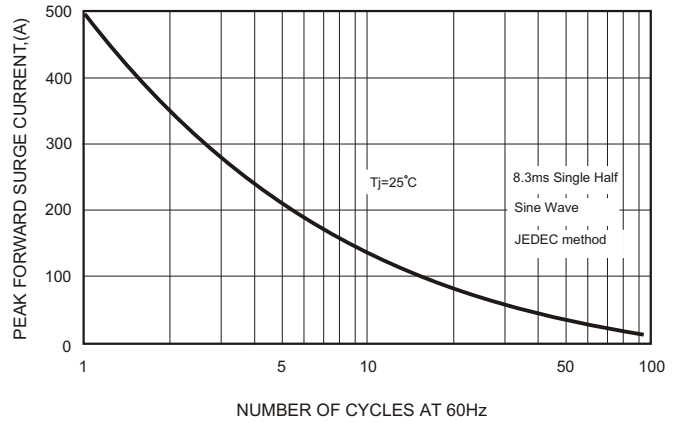


FIG.3-TYPICAL FORWARD CHARACTERISTICS

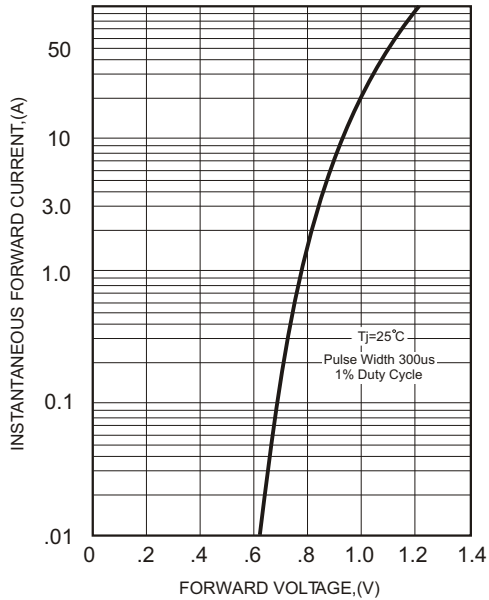


FIG.4-TYPICAL REVERSE CHARACTERISTICS

