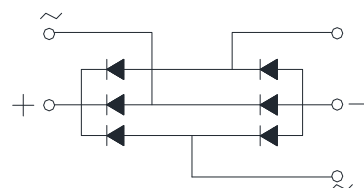


Features

- UL recognition, file #E476985
- Glass passivated chip
- High surge current capability
- Low thermal resistance
- Solder dip 275 °C max. 7 s, per JESD 22-B106

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

■Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SKBPC5004	SKBPC5006	SKBPC5008	SKBPC5010	SKBPC5012	SKBPC5014	SKBPC5016
Device marking code			SKBPC5004	SKBPC5006	SKBPC5008	SKBPC5010	SKBPC5012	SKBPC5014	SKBPC5016
Repetitive Peak Reverse Voltage	V _{RRM}	V	400	600	800	1000	1200	1400	1600
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink T _c =55°C	I _O	A	50						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, T _a =25°C	I _{FSM}	A	500						
Current Squared Time @1ms≤t<8.3ms T _j =25°C, Rating of per diode	i ² t	A ² S	1040						
Storage Temperature	T _{stg}	°C	-55 ~+150						
Junction Temperature	T _j	°C	-55~+150						
Dielectric Strength, Terminals to case, AC 1 minute	V _{dis}	KV	2.5						
Mounting Torque	TOR	g·cm	10						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SKBPC5006	SKBPC5008	SKBPC5008	SKBPC5010	SKBPC5012	SKBPC5014	SKBPC5016
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =25A	1.2						
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =V _{RRM}	10						

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SKBPC5006	SKBPC5008	SKBPC5008	SKBPC5010	SKBPC5012	SKBPC5014	SKBPC5016
Thermal Resistance	Between junction and case, With heatsink	R θ J-C	°C/W	0.9						

■ Characteristics (Typical)

FIG1:Io-Tc Curve

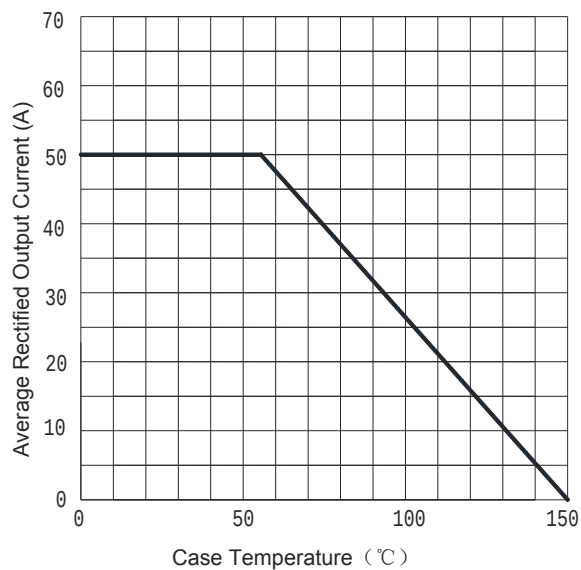


FIG2:Surge Forward Current Capability

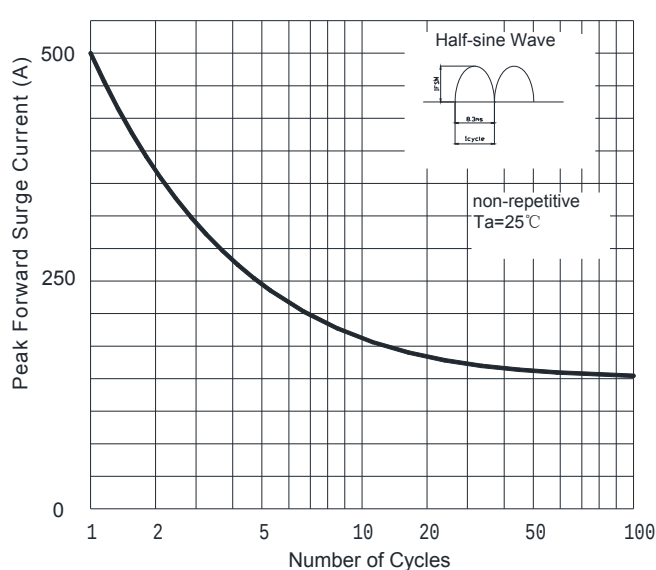


FIG3:Instantaneous Forward Voltage

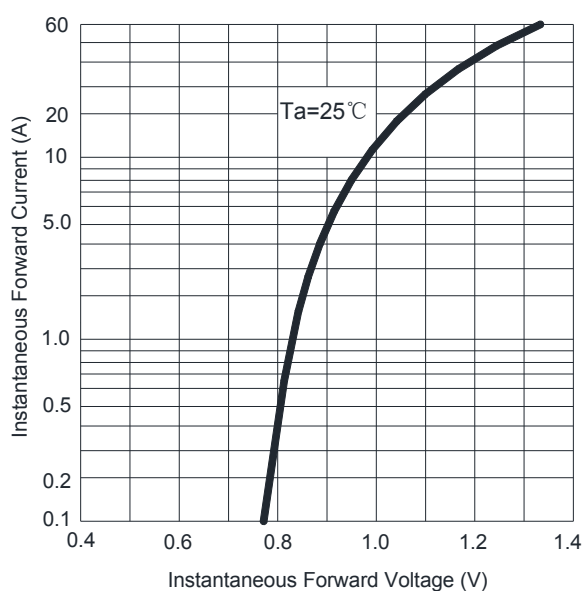
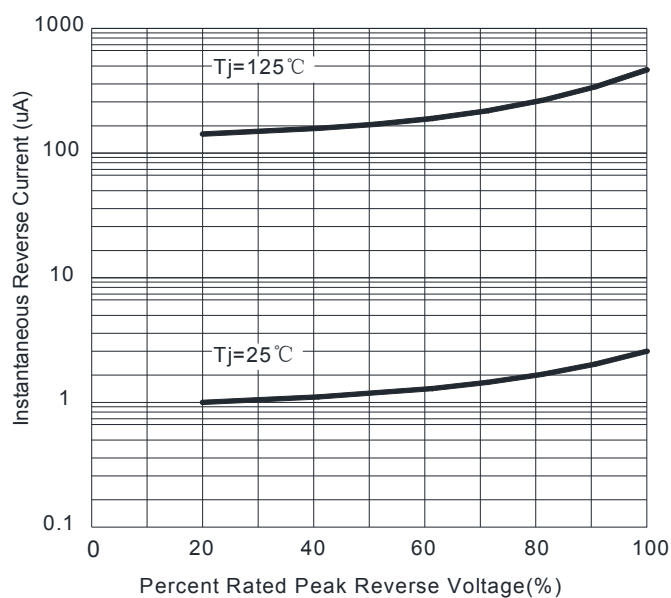
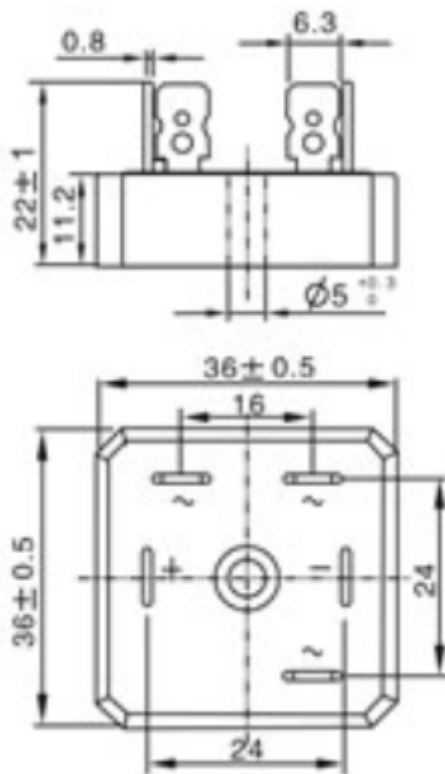


FIG4:Typical Reverse Characteristics



■ Outline Dimensions

SKBPC



■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SKBPC5004~SKBPC5016	SKBPC	Approximate 19	50	50	500	Paper Box