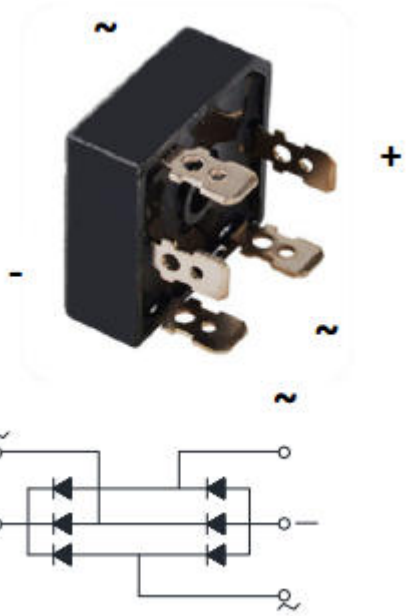
Three Phase Bridge Rectifiers



Features

- UL recognition, file #E230084
- 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 (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SKBPC1504	SKBPC1506	SKBPC1508	SKBPC1510	SKBPC1512	SKBPC1514	SKBPC1516
Device marking code			SKBPC1504	SKBPC1506	SKBPC1508	SKBPC1510	SKBPC1512	SKBPC1514	SKBPC1516
Repetitive Peak Reverse Voltage	VRRM	V	400	600	800	1000	1200	1400	1600
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink Tc=55℃	IO	A	15						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, Ta=25℃	IFSM	A	300						
Current Squared Time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	I^2t	A^2S	375						
Storage Temperature	Tstg	℃	-55 ~+150						
Junction Temperature	Tj	℃	-55~+150						
Dielectric Strength, Terminals to case，AC 1 minute	V_{dis}	KV	2.5						
Mounting Torque	TOR	kg·cm	10						

■Electrical Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SKBPC1506	SKBPC1508	SKBPC1508	SKBPC1510	SKBPC1512	SKBPC1514	SKBPC1516
Maximum instantaneous forward voltage drop per diode	VFM	V	IFM=7.5A	1.2						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM	10						

■Thermal Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SKBPC1506	SKBPC1508	SKBPC1508	SKBPC1510	SKBPC1512	SKBPC1514	SKBPC1516
Thermal Resistance	Between junction and case, With heatsink	$R_{\theta J-C}$	℃/W	3.0						

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SKBPC1504~SKBPC1516	A1	Approximate 19	50	50	500	Paper Box

■ Characteristics (Typical)

FIG1:Io-Tc Curve

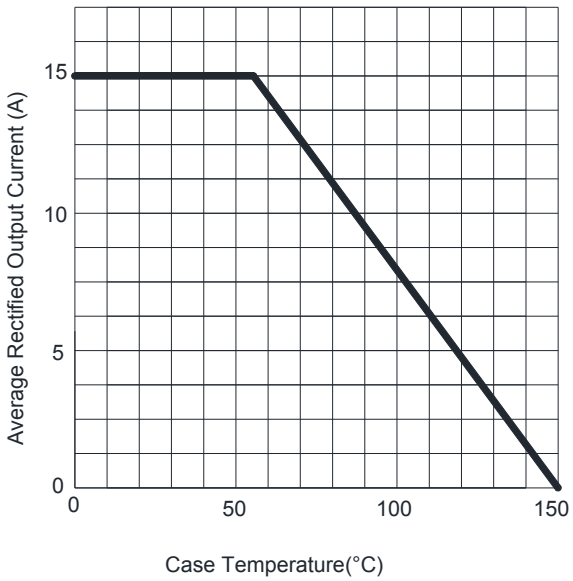


FIG2:Surge Forward Current Capability

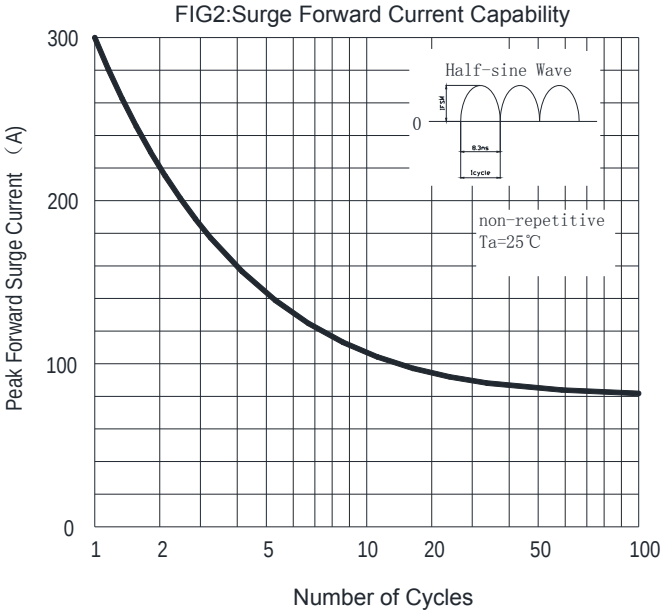


FIG3:Instantaneous Forward Voltage

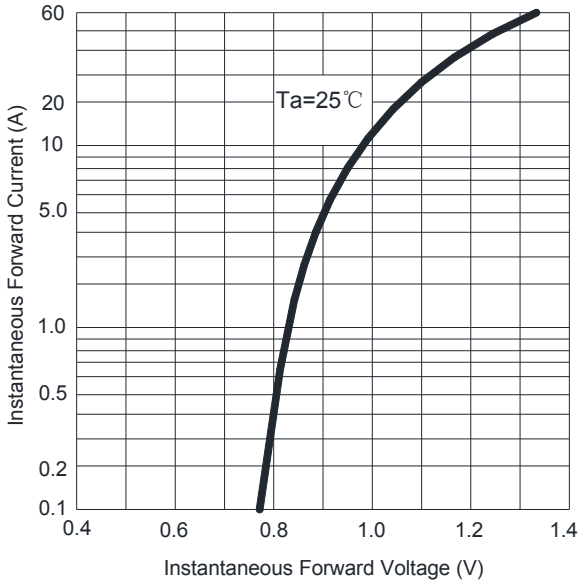
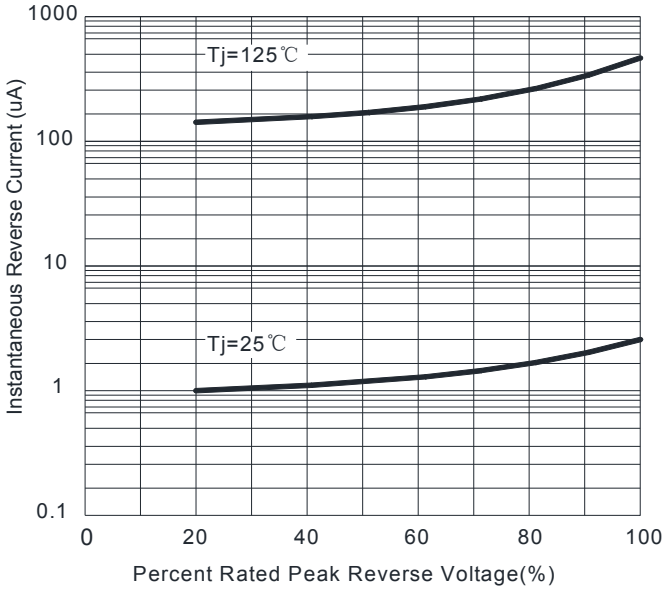
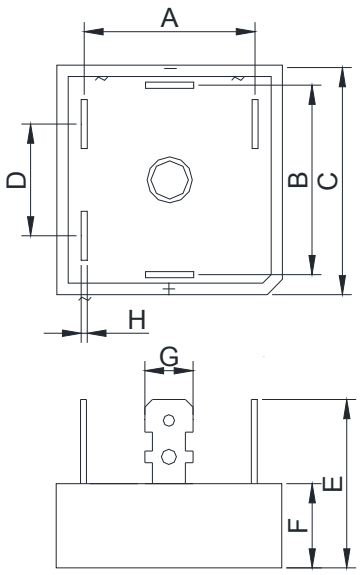


FIG4:Typical Reverse Characteristics



■ Outline Dimensions

SKBPC



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

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