

## Features

- $I_o$  50A
- $V_{RRM}$  400V~1600V
- Glass passivated chip
- High surge forward current capability

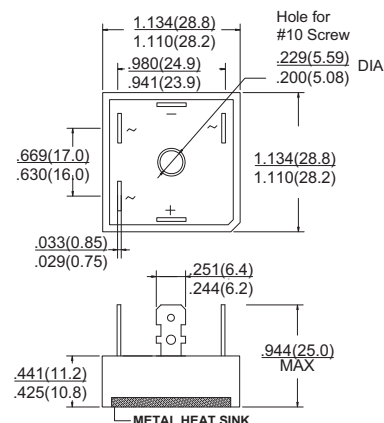
## Applications

- General purpose 3 phase Bridge rectifier applications

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.  
resistive or inductive load.

## SKBPC



Dimensions for inches and (millimeters)

MAXIMUM RATINGS (@  $T_A=25^\circ\text{C}$  unless otherwise noted)

RATINGS	SYMBOL	SKBPC50							UNITS
		04	06	08	10	12	14	16	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	400	600	800	1000	1200	1400	1600	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	280	420	560	700	840	980	1120	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	400	600	800	1000	1200	1400	1600	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 50°C	I <sub>o</sub>	50							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	500							Amps
Current Squared Time	I <sup>2</sup> T	1040							A <sup>2</sup> /Sec
Typical Thermal Resistance (Note 1)	R <sub>θJC</sub>	0.9							°C/W
Dielectric Strength ,Terminals to case ,AC 1 minute	V <sub>dis</sub>	2.5							KV
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-40 to+ 150							°C

ELECTRICAL CHARACTERISTICS (@  $T_A=25^\circ\text{C}$  unless otherwise noted)

CHARACTERISTICS	SYMBOL	04	06	08	10	12	14	16	UNITS	
Maximum Instantaneous Forward Voltage at 1.0A DC	V <sub>F</sub>	1.2								Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage @T <sub>A</sub> = 25°C	I <sub>R</sub>	10								uAmps

NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.  
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".  
3. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

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REV:O10

# RATING AND CHARACTERISTICS CURVES (SKBPC5004 THRU SKBPC5016)

图1:  $I_o$ - $T_a$ 曲线  
FIG1:  $I_o$ - $T_a$  Curve

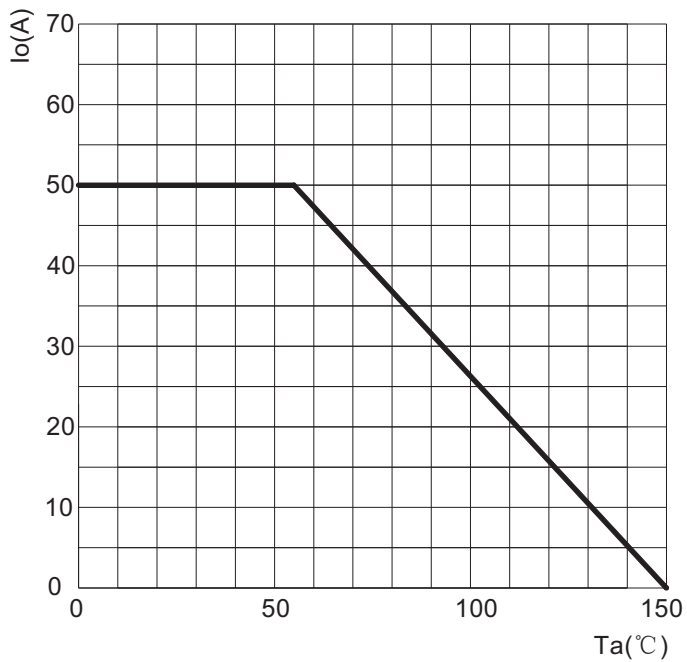


图2: 耐正向浪涌电流曲线  
FIG2: Surge Forward Current Capability

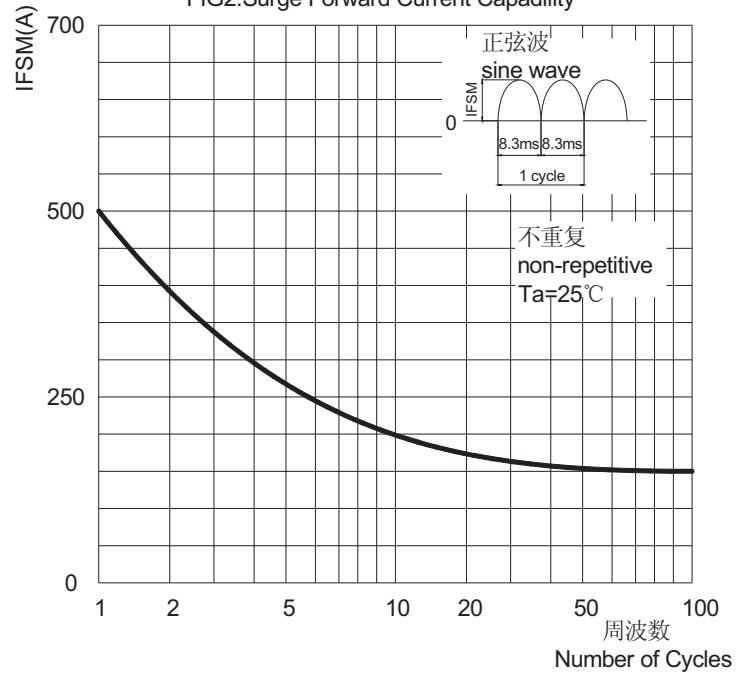


图3: 正向电压曲线  
FIG3: Instantaneous Forward Voltage

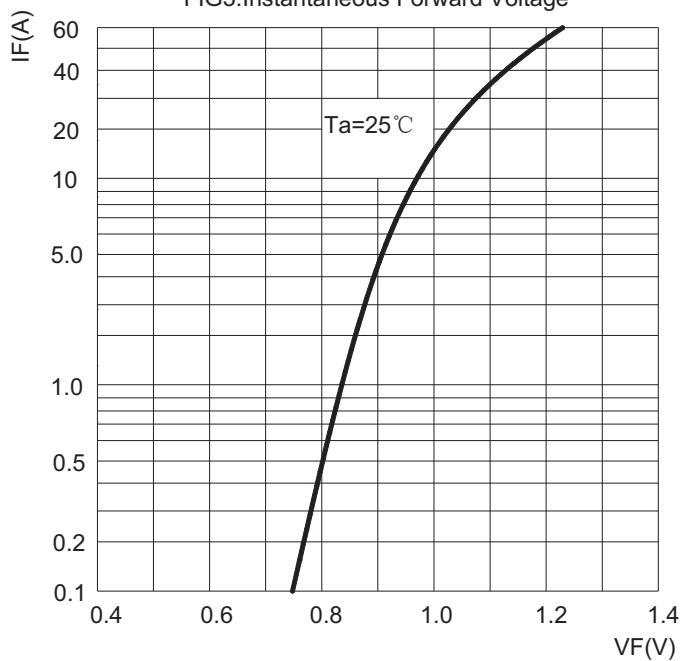
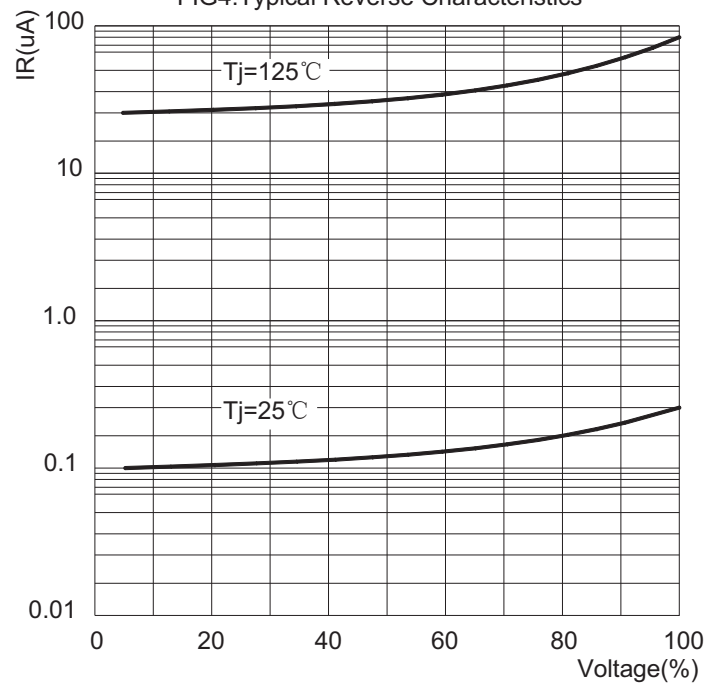


图4: 反向电流曲线  
FIG4: Typical Reverse Characteristics



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