

# SKBPC5004 THRU SKBPC5016

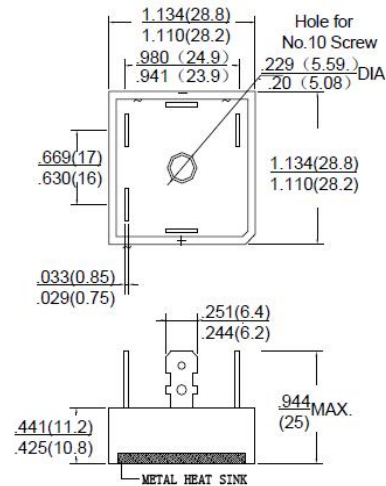
THREE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

REVERSE VOLTAGE 400 to 1600 Volts FORWARD CURRENT 50 Ampere

## FEATURES

- ◆ I<sub>o</sub> 50A
- ◆ V<sub>RRM</sub> 400V~1600V
- ◆ Glass passivated chip
- ◆ High surge forward current capability

## SKBPC



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	Conditions	SKBC 5004	SKBPC 5006	SKBPC 5008	SKBPC 5010	SKBPC 5012	SKBPC 5014	SKBPC 5016	UNIT
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		400	600	800	1000	1200	1400	1600	V
Average Rectified Output Current	I <sub>O</sub>	60Hz sine wave, R-load With heatsink T <sub>c</sub> =55°C	50							A
Surge(Nonrepetitive) Forward Current	I <sub>FSM</sub>	60Hz sine wave, 1 cycle, T <sub>a</sub> =25°C	500							A
Current Squared Time	I <sup>2</sup> t	1ms≤t<8.3ms T <sub>j</sub> =25°C Rating of per diode	1040							A <sup>2</sup> S
Storage Temperature	T <sub>STG</sub>		-40~+150							°C
Junction Temperature	T <sub>J</sub>		-55~+150							°C
Dielectric Strength	V <sub>dis</sub>	Terminals to case, AC 1 minute	2.5							KV
Item	SYMBOL	UNIT	Test Condition							Max
Peak Forward Voltage	V <sub>FM</sub>	V	I <sub>FM</sub> =17A, Pulse measurement, Rating of per							1.2
Peak Reverse Current	I <sub>RRM</sub>	μA	V <sub>RM</sub> =V <sub>RRM</sub> , Pulse measurement, Rating of per diode							10
Thermal Resistance	R <sub>θJ-C</sub>	°C/W	Between junction and case, With heatsink							0.9

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General purpose 3 phase Bridge Rectifier

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## RATING AND CHARACTERISTIC CURVES SKBPC5004 THRU SKBPC5016

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

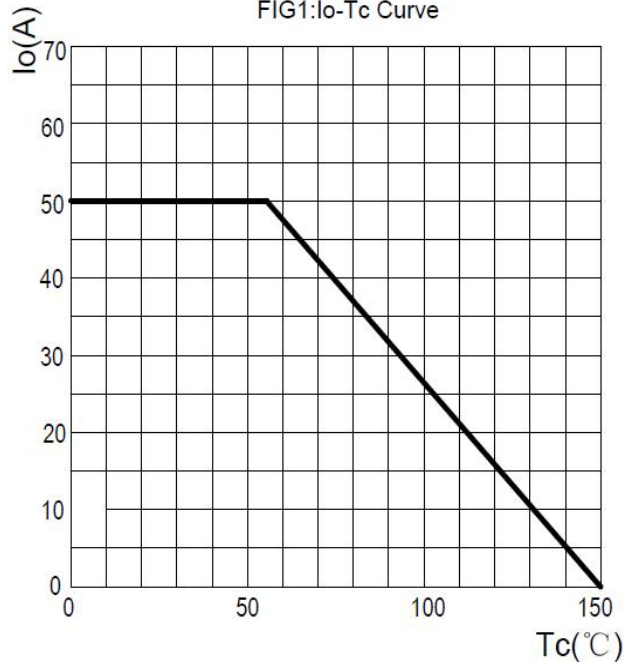


图2: 耐正向浪涌电流曲线  
FIG2: Surge Forward Current Capability

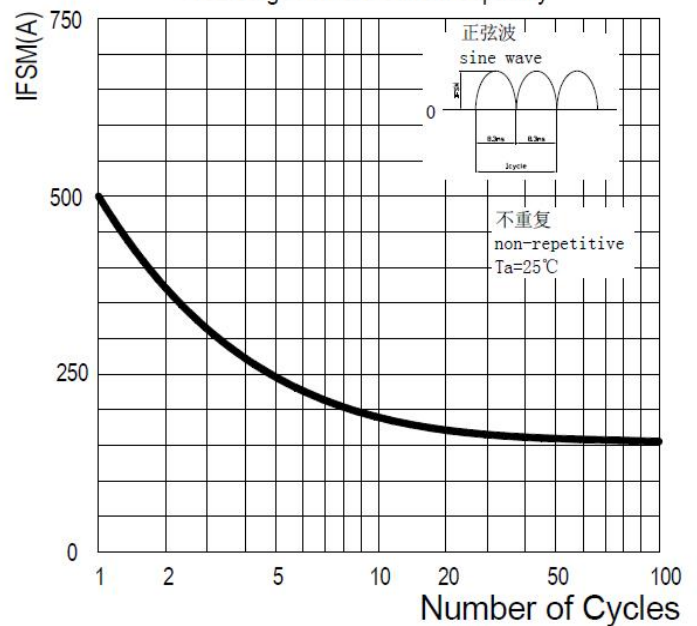


图3: 正向电压曲线  
FIG3: Instantaneous Forward Voltage

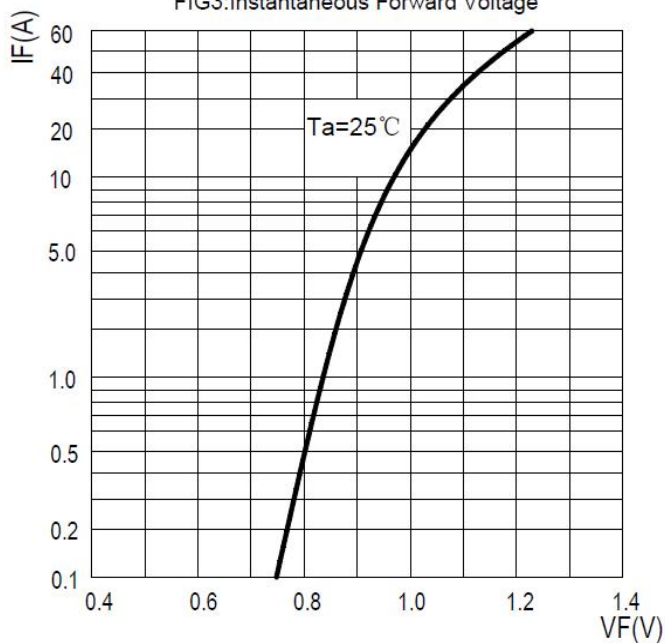
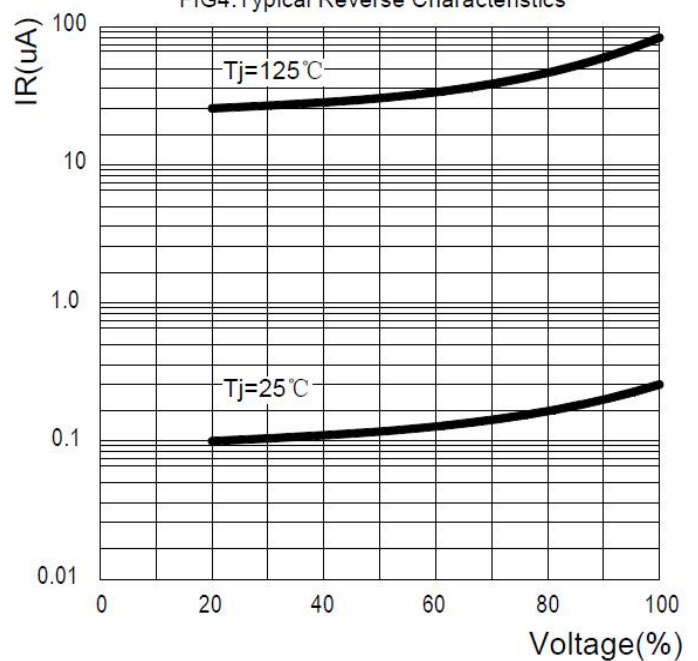


图4: 反向电流曲线  
FIG4: Typical Reverse Characteristics



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.