

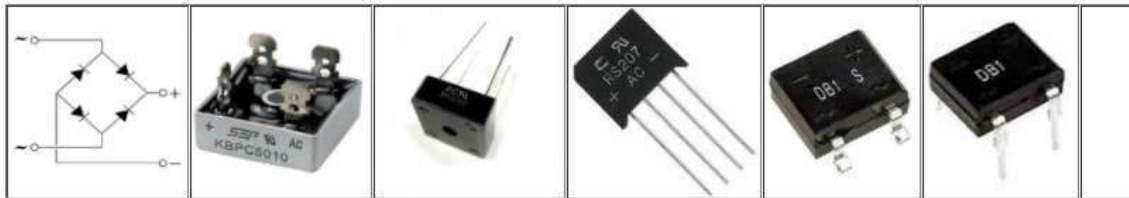
Диодный мост **skbpc 5010 Минск**, тел.+375447584780

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email minsk17@tut.by tel.+375 29 758 47 80 мтс



каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото, skbpc, skbpc5010, даташит, аналог, замена [QR код](#)



Диодные мосты однофазные KBPC



Диодные мосты однофазные QL



Диодные мосты трёхфазные SQL



Диодные мосты однофазные MDQ



Диодные мосты трёхфазные MDS

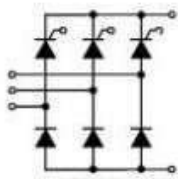


Диодные мосты однофазные DF10M

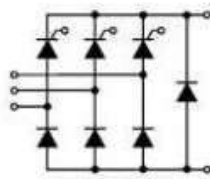
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каталог, описание, технические, характеристики,
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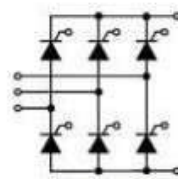
Datasheetdir



S3PHB70



S3PHBD70



S3PFB70

Трёхфазные полностью управляемые мосты

Трёхфазные полупроводяемые мосты

Трёхфазные полупроводяемые мосты с разрядным

Трёхфазные тиристорные модули с общим анодом

Однофазные выпрямительные мосты



THREE-PHASE BRIDGE RECTIFIER

SKBPC5004 - SKBPC5016

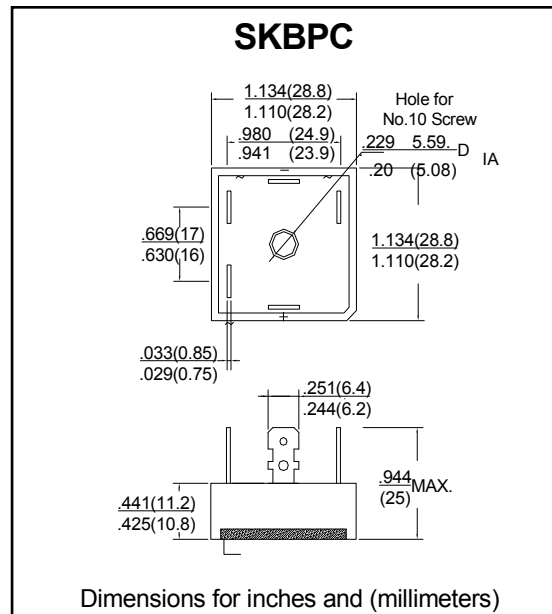
FEATURES

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

APPLICATIONS

- General purpose 3 phase Bridge rectifier applications

Outline Dimensions and Mark



LIMITING VALUES (ABSOLUTE MAXIMUM RATING)

Item	Symbol	Unit	Conditions	SKBPC50						
				04	06	08	10	12	14	16
Repetitive Peak Reverse Voltage	V_{RRM}	V		400	600	800	1000	1200	1400	1600
Average Rectified Output Current	I_o	A	60Hz sine wave, R-load, with heatsink $T_a=55^\circ\text{C}$	50						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$	500						
Current Squared Time	I^2t	A^2S	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$, Rating of per diode	1040						
Storage Temperature	T_{stg}	$^\circ\text{C}$		-40 ~ +150						
Junction Temperature	T_j	$^\circ\text{C}$		-40 ~ +150						
Dielectric Strength	V_{dis}	KV	Terminals to case, AC 1 minute	2.5						

($T_a=25^\circ\text{C}$) Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=17\text{A}$, Pulse measurement, Rating of per diode	1.2
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-C}$	$^\circ\text{C}/\text{W}$	Between junction and case with heatsink	0.9

SKBPC5004 - SKBPC5016

CHARACTERISTICS(TYPICAL)

FIG1:Io-Tc Curve

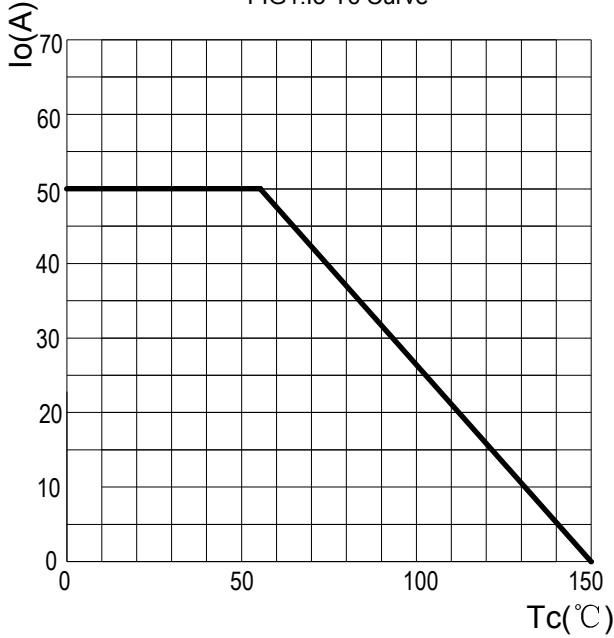


FIG2:Surge Forward Current Capacity

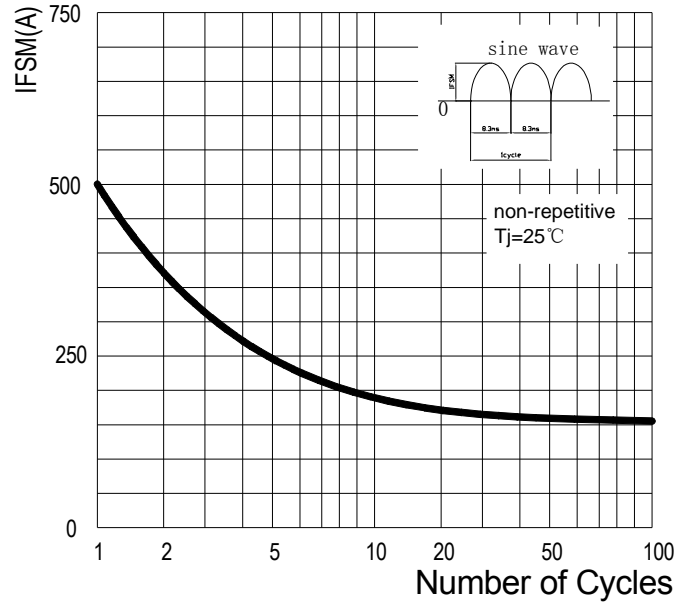


FIG3:Instantaneous Forward Voltage

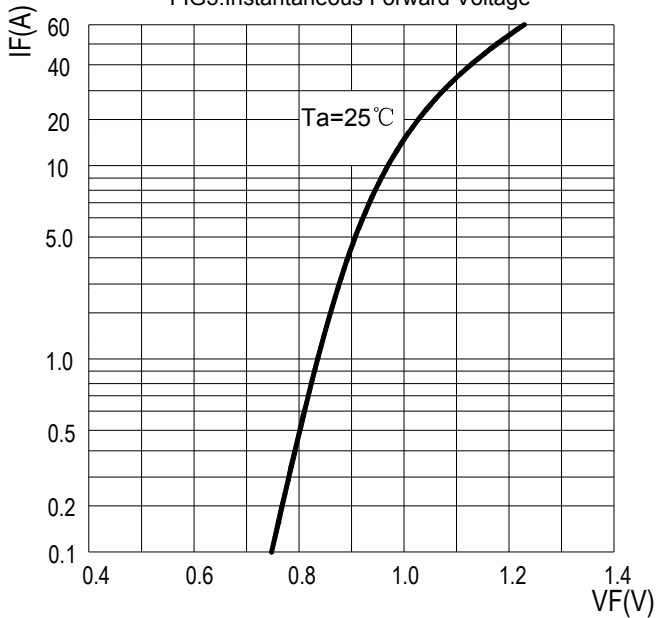
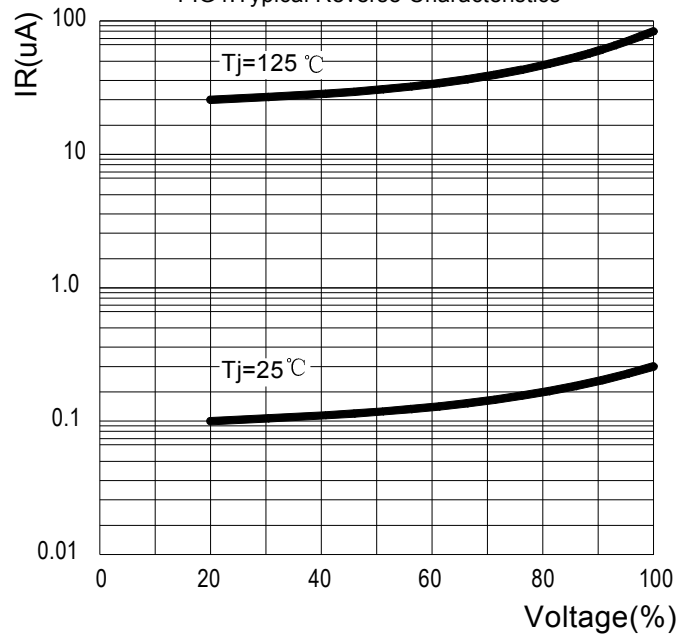


FIG4:Typical Reverse Characteristics



Features

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

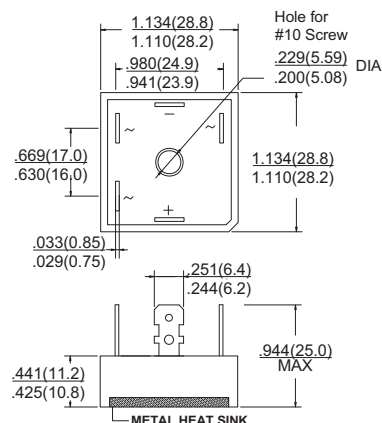
Applications

- 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



MAXIMUM RATINGS (@ $T_A=25$ °C unless otherwise noted)

RATINGS	SYMBOL	SKBPC50								UNITS
		04	06	08	10	12	14	16		
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	800	1000	1200	1400	1600	Volts	
Maximum RMS Voltage	V_{RMS}	280	420	560	700	840	980	1120	Volts	
Maximum DC Blocking Voltage	V_{DC}	400	600	800	1000	1200	1400	1600	Volts	
Maximum Average Forward Rectified Current at $T_A = 50^\circ\text{C}$	I_o	50							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	500							Amps	
Current Squared Time	I^2T	1040							A^2/Sec	
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	0.9							$^\circ\text{C}/\text{W}$	
Dielectric Strength ,Terminals to case ,AC 1 minute	V_{dis}	2.5							KV	
Operating and Storage Temperature Range	T_J, T_{STG}	-40 to+ 150							$^\circ\text{C}$	

ELECTRICAL CHARACTERISTICS (@ $T_A=25$ °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	04	06	08	10	12	14	16	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC	V_F	1.2							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A = 25^\circ\text{C}$	I_R	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.

2016-09
REV:010

RATING AND CHARACTERISTICS CURVES (SKBPC5004 THRU SKBPC5016)

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

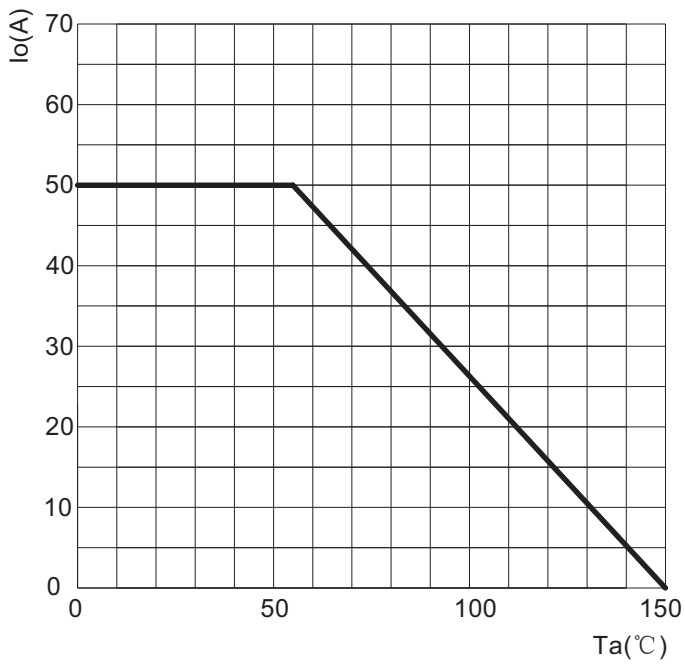


图2: 耐正向浪涌电流曲线
FIG2: Surge Forward Current Capability

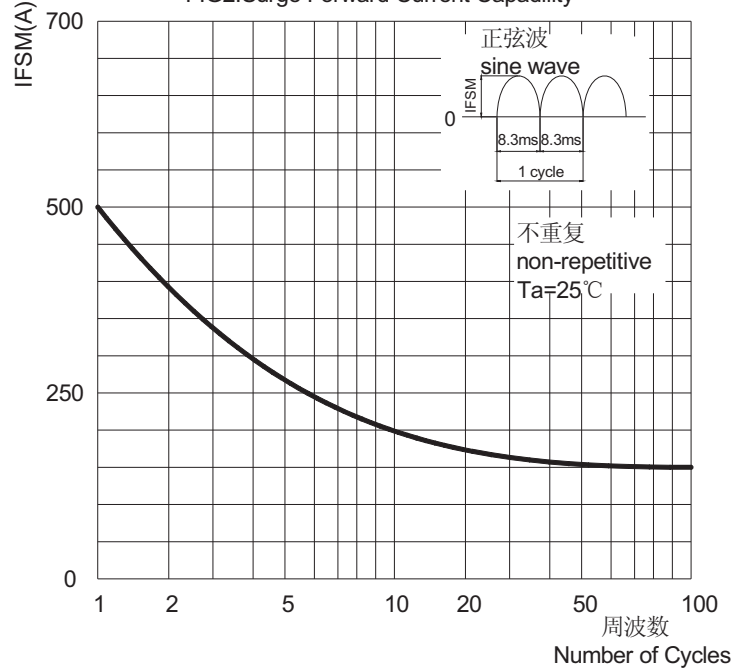


图3: 正向电压曲线
FIG3: Instantaneous Forward Voltage

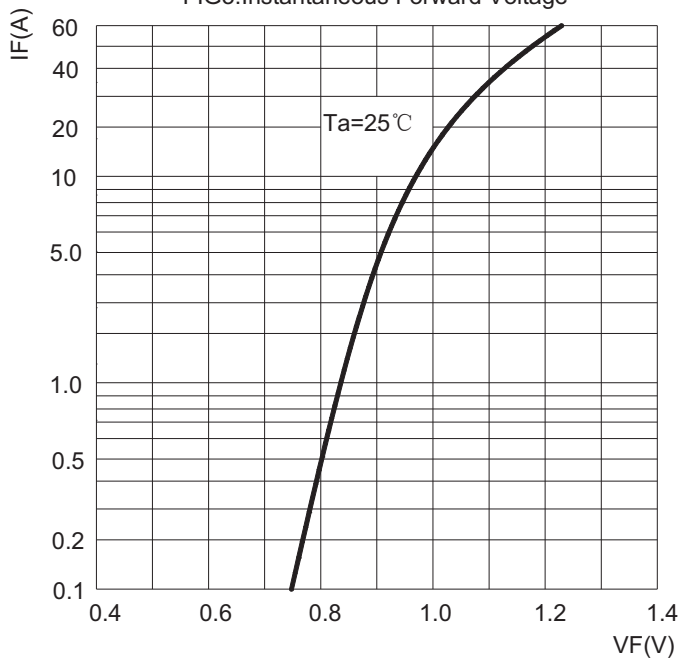
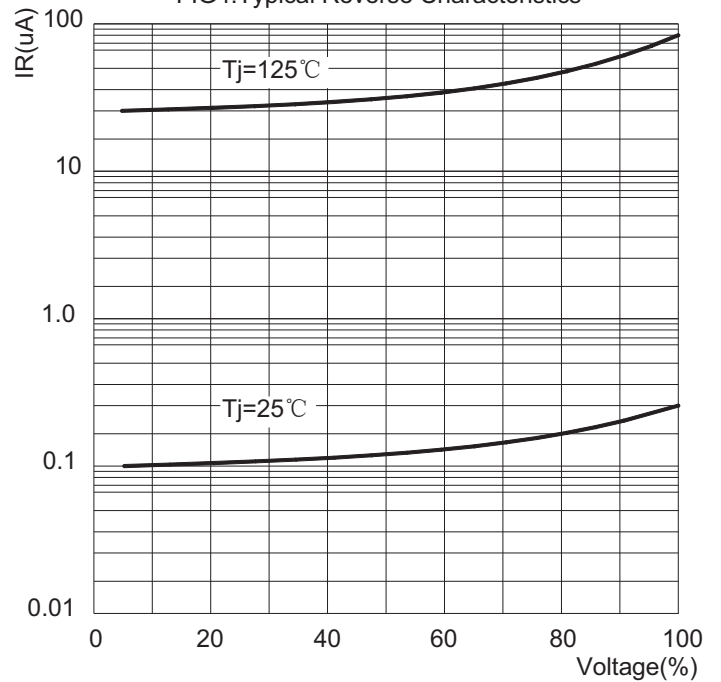


图4: 反向电流曲线
FIG4: Typical Reverse Characteristics



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SKBPC5004 THRU SKBPC5016

桥式整流器 Bridge Rectifier

■特征 Features

- I_o 50A
- V_{RRM} 400V~1600V
- 玻璃钝化芯片
Glass passivated chip
- 耐正向浪涌电流能力高
High surge forward current capability

■用途 Applications

- 作一般电源三相桥式整流用
General purpose 3 phase Bridge rectifier applications

■极限值（绝对最大额定值）

Limiting Values (Absolute Maximum Rating)

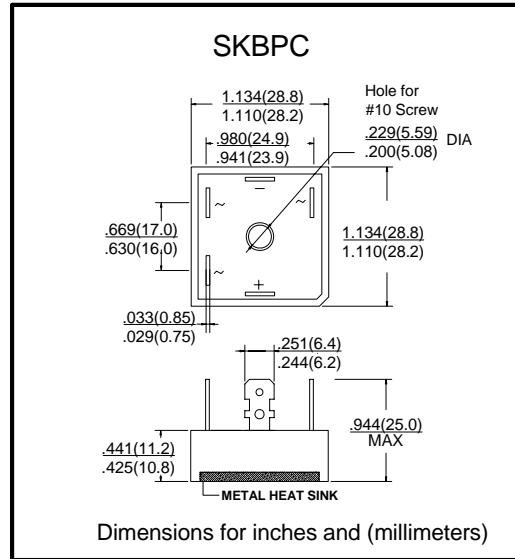
参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	SKBPC50						
				04	06	08	10	12	14	16
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		400	600	800	1000	1200	1400	1600
平均整流输出电流 Average Rectified Output Current	I_o	A	60Hz 正弦波, 电阻负载 60Hz sine wave, R-load 用散热器 $T_c=55^\circ\text{C}$ With heatsink $T_c=55^\circ\text{C}$	50						
正向（不重复）浪涌电流 Surge(Nonrepetitive) Forward Current	I_{FSM}	A	60Hz正弦波, 一个周期, $T_a=25^\circ\text{C}$ 60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$	500						
正向浪涌电流的平方对电流浪涌持续时间的积分值 Current Squared Time	I^2t	A^2S	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ 单个二极管 $1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ Rating of per diode	1040						
存储温度 Storage Temperature	T_{stg}	$^\circ\text{C}$		-40 ~ +150						
结温 Junction Temperature	T_j	$^\circ\text{C}$		-40 ~ +150						
绝缘耐压 Dielectric Strength	V_{dis}	KV	端子与外壳之间外加交流电, 一分钟 Terminals to case, AC 1 minute	2.5						

■电特性（ $T_a=25^\circ\text{C}$ 除非另有规定）

Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	最大值 Max
正向峰值电压 Peak Forward Voltage	V_{FM}	V	$I_{FM}=17\text{A}$, 脉冲测试, 单个二极管的额定值 $I_{FM}=17\text{A}$, Pulse measurement, Rating of per diode	1.2
反向峰值电流 Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, 脉冲测试, 单个二极管的额定值 $V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
热阻 Thermal Resistance	$R_{\theta J-C}$	$^\circ\text{C}/\text{W}$	结和管壳之间, 用散热器 Between junction and case, With heatsink	0.9

■外形尺寸和印记 Outline Dimensions and Mark





■特性曲线（典型） Characteristics(Typical)

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

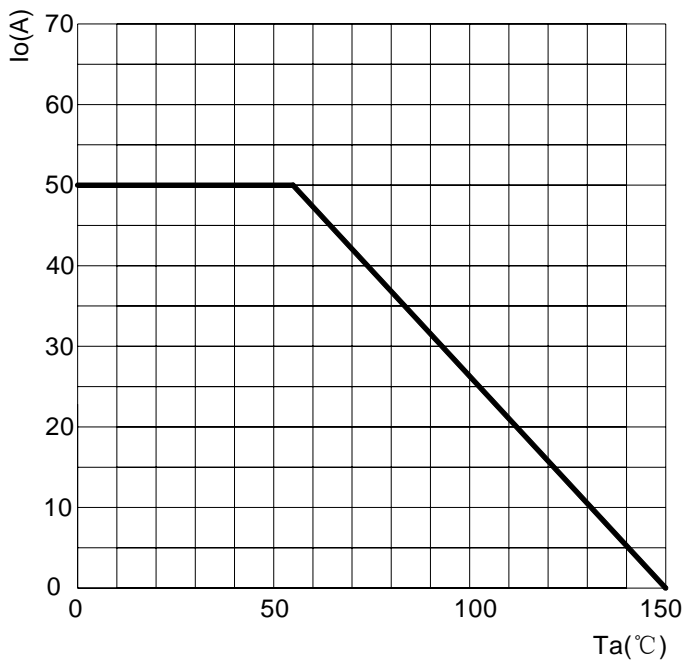


图2: 耐正向浪涌电流曲线
FIG2:Surge Forward Current Capacity

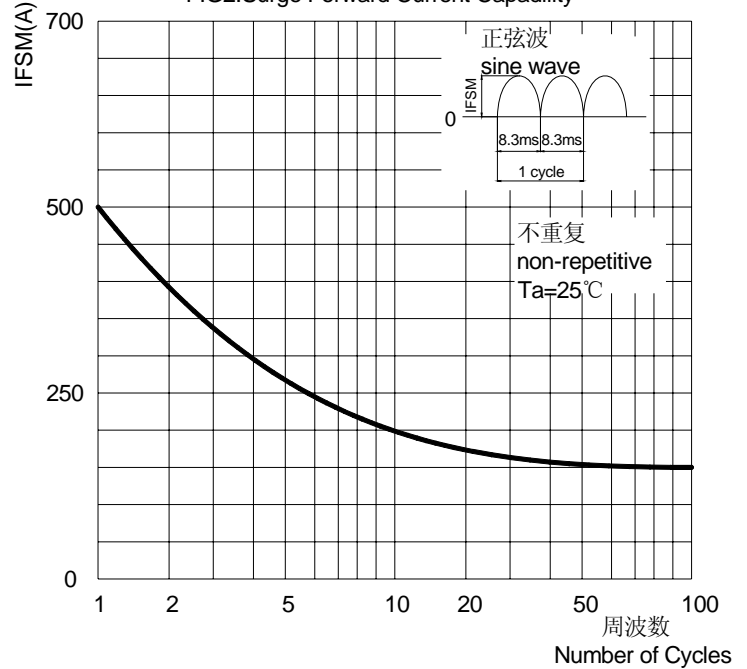


图3: 正向电压曲线
FIG3:Instantaneous Forward Voltage

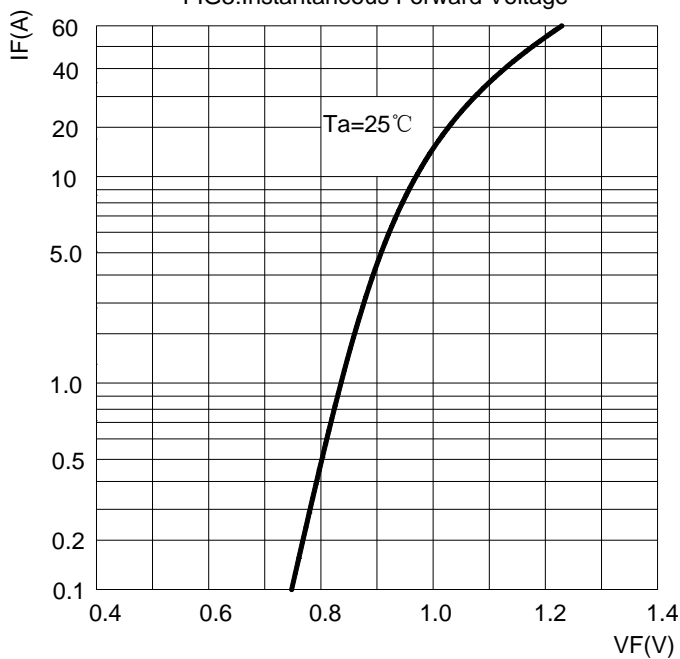
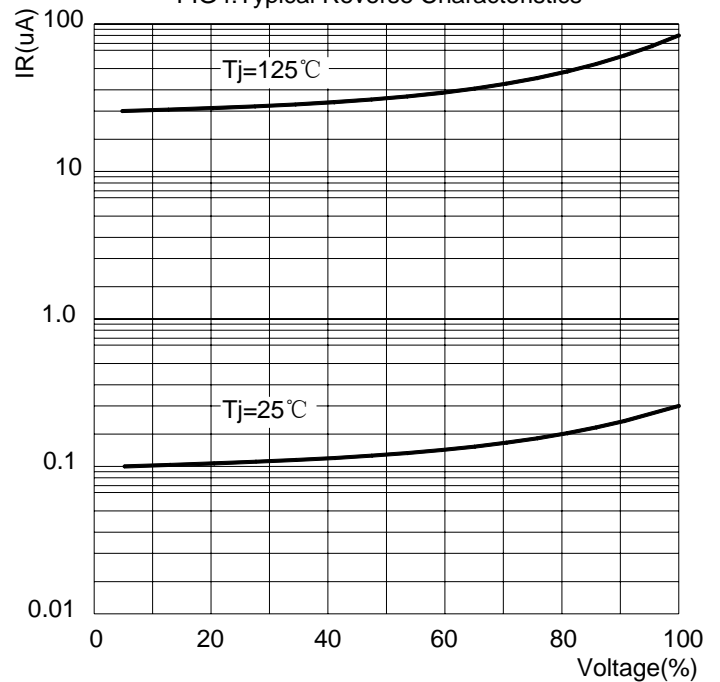


图4: 反向电流曲线
FIG4:Typical Reverse Characteristics



SKBPC5004 THRU SKBPC5016

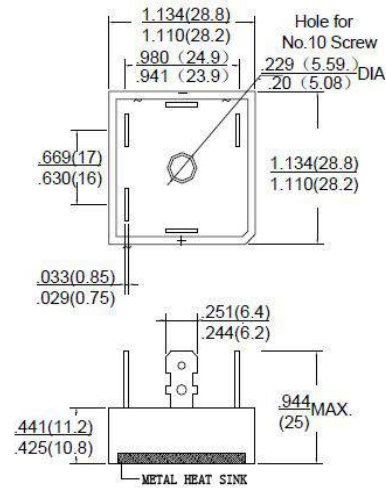
THREE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

REVERSE VOLTAGE 400 to 1600 Volts FORWARD CURRENT 50 Ampere

FEATURES

- ◆ I_o 50A
- ◆ V_{RRM} 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 _{RRM}		400	600	800	1000	1200	1400	1600	V
Average Rectified Output Current	I _O	60Hz sine wave, R-load With heatsink T _c =55°C	50							A
Surge(Nonrepetitive) Forward Current	I _{FSM}	60Hz sine wave, 1 cycle, T _a =25°C	500							A
Current Squared Time	I ² t	1ms≤t<8.3ms T _j =25°C Rating of per diode	1040							A ² S
Storage Temperature	T _{STG}		-40~+150							°C
Junction Temperature	T _J		-55~+150							°C
Dielectric Strength	V _{dis}	Terminals to case, AC 1 minute	2.5							KV
Item	SYMBOL	UNIT	Test Condition							Max
Peak Forward Voltage	V _{FM}	V	I _{FM} =17A, Pulse measurement, Rating of per							1.2
Peak Reverse Current	I _{RRM}	μA	V _{RM} =V _{RRM} , Pulse measurement, Rating of per diode							10
Thermal Resistance	RθJ-C	°C/W	Between junction and case, With heatsink							0.9

SKBPC5004 THRU SKBPC5016

General purpose 3 phase Bridge Rectifier

REVERSE VOLTAGE 400 to 1600 Volts FORWARD CURRENT 50 Ampere

RATING AND CHARACTERISTIC CURVES SKBPC5004 THRU SKBPC5016

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

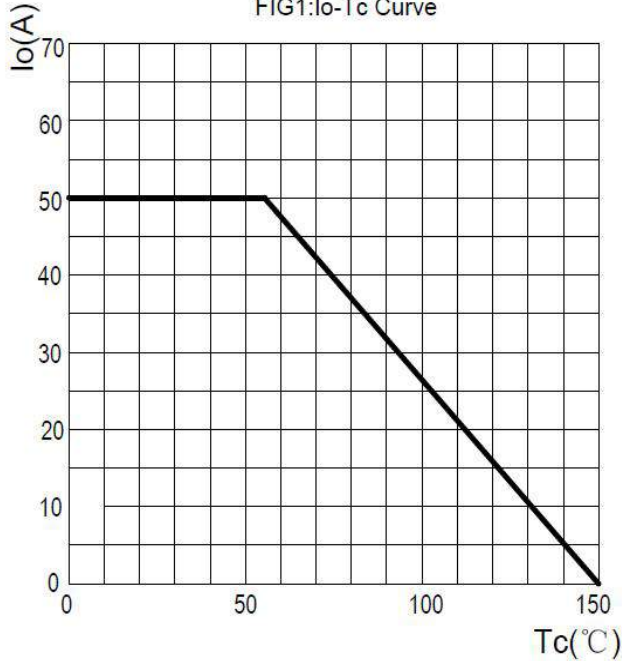


图2: 耐正向浪涌电流曲线
FIG2: Surge Forward Current Capability

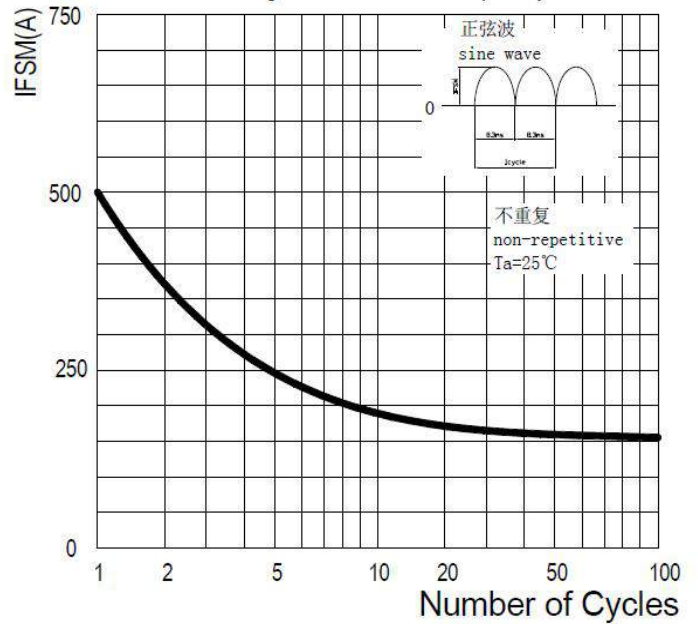


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FIG3: Instantaneous Forward Voltage

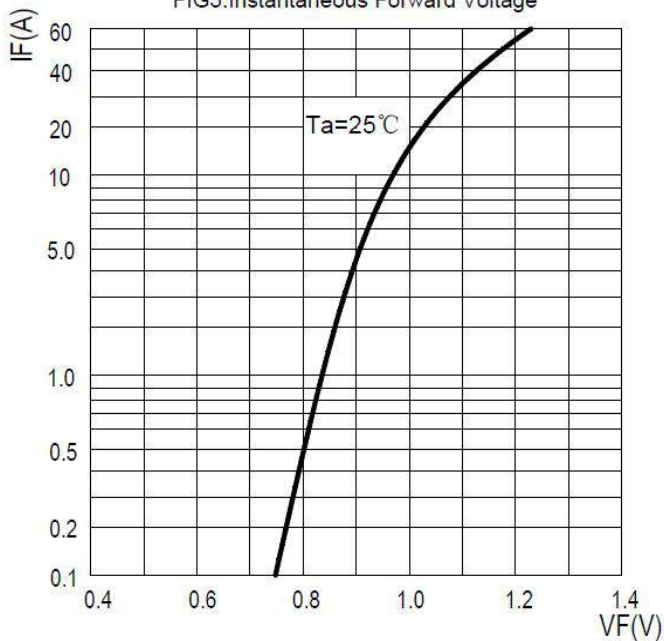
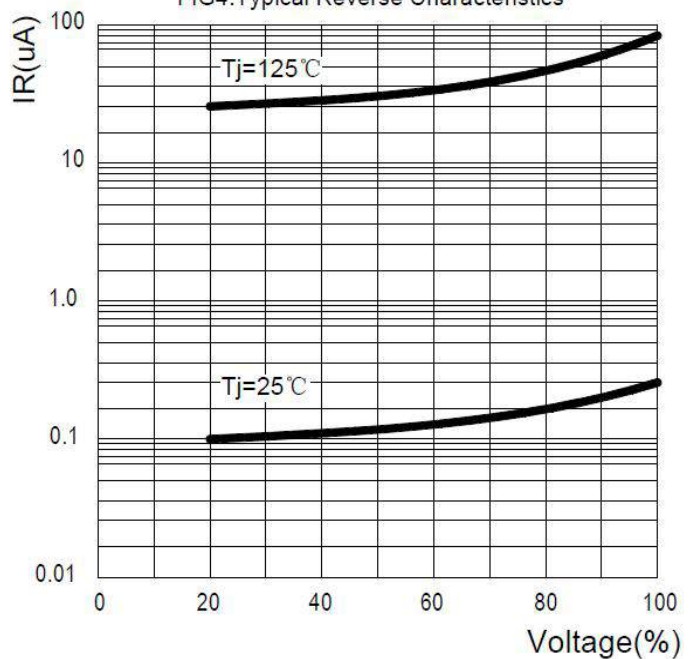


图4: 反向电流曲线
FIG4: Typical Reverse Characteristics



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

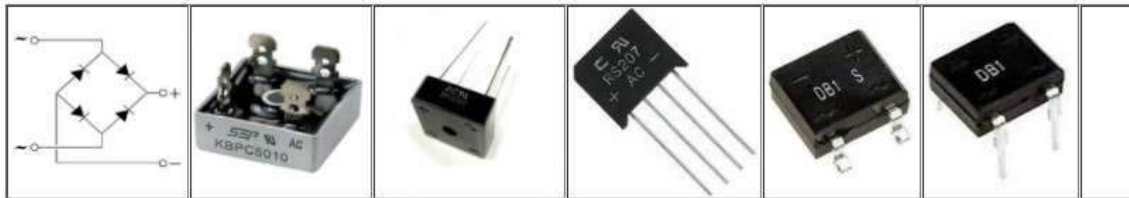
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Диодные мосты однофазные KBPC



Диодные мосты однофазные QL



Диодные мосты трёхфазные SQL



Диодные мосты однофазные MDQ



Диодные мосты трёхфазные MDS

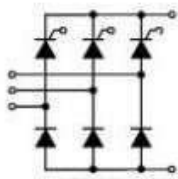


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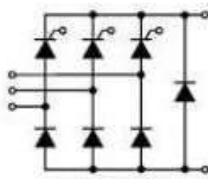
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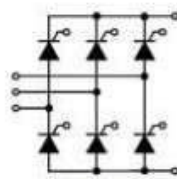
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S3PHB70



S3PHBD70



S3PFB70

Трёхфазные полностью управляемые мосты

Трёхфазные полупроводяемые мосты

Трёхфазные полупроводяемые мосты с разрядным

Трёхфазные тиристорные модули с общим анодом

Однофазные выпрямительные мосты