

SKBPC5004 THRU SKBPC5016

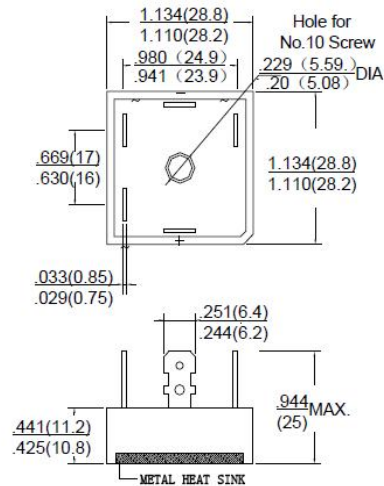
THREE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

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	R _{θJ-C}	°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

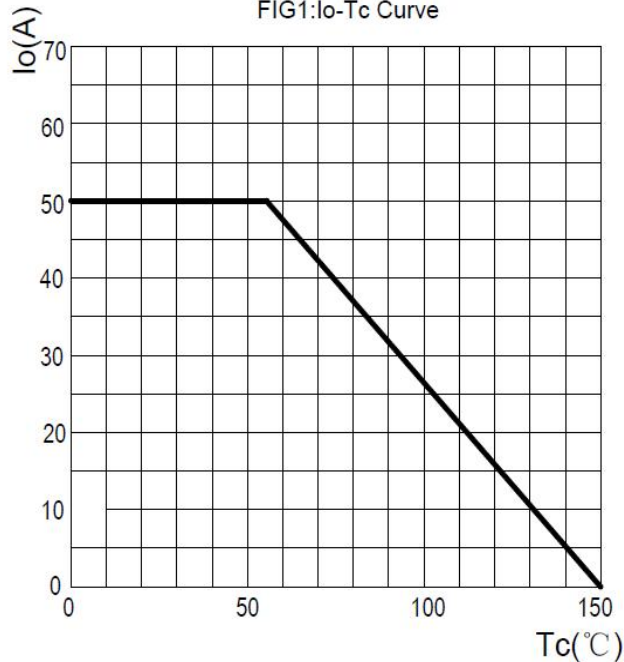


图2: 耐正向浪涌电流曲线
FIG2: Surge Forward Current Capability

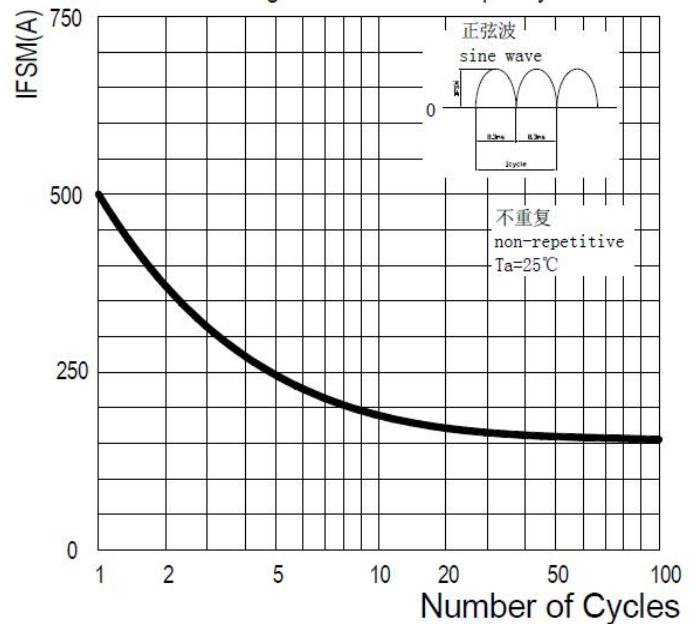


图3: 正向电压曲线
FIG3: Instantaneous Forward Voltage

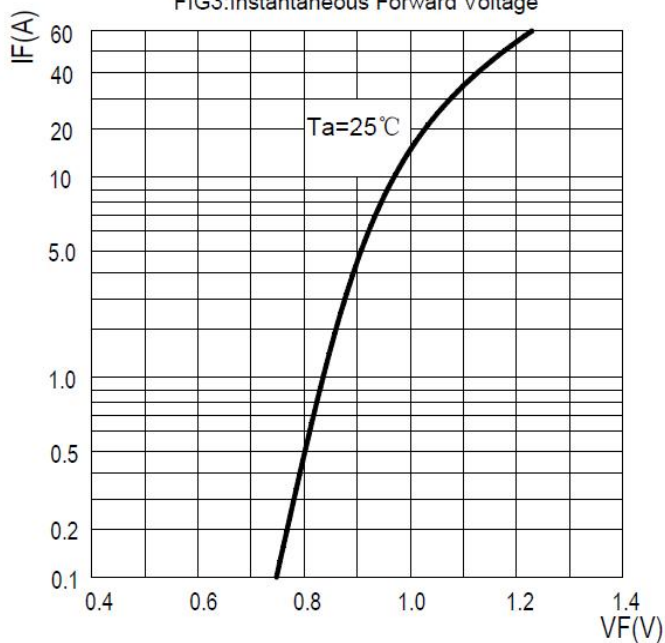
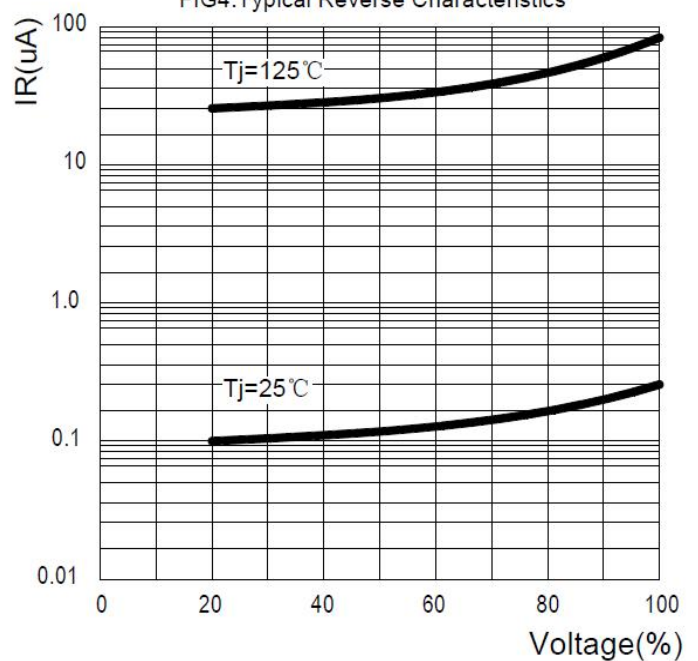


图4: 反向电流曲线
FIG4: Typical Reverse Characteristics



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