

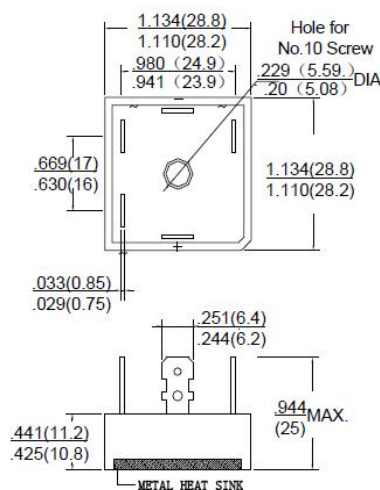
SKBPC3504 THRU SKBPC3516

THREE PHASE GLASS PASSIVATED BRIDGE RECTIFIER
REVERSE VOLTAGE 400 to 1600 Volts FORWARD CURRENT 35 Ampere

FEATURES

- ◆ I_o 35A
- ◆ 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 3504	SKBPC 3506	SKBPC 3508	SKBPC 3510	SKBPC 3512	SKBPC 3514	SKBPC 3516	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 $T_c=55^\circ\text{C}$	35							A
Surge(Nonrepetitive) Forward Current	I_{FSM}	60Hz sine wave, 1 cycle, $T_a=25^\circ\text{C}$		425							A
Current Squared Time	I^2t	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ Rating of per diode		750							A ² S
Storage Temperature	T_{STG}			$-40 \sim +150$							°C
Junction Temperature	T_j			$-55 \sim +150$							°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		$I_{FM}=12\text{A}$, 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	$R_{\theta J-C}$	°C/W		Between junction and case, With heatsink							1.35

SKBPC3504 THRU SKBPC3516

General purpose 3 phase Bridge Rectifier

REVERSE VOLTAGE 400 to 1600 Volts FORWARD CURRENT 15 Ampere

RATING AND CHARACTERISTIC CURVES SKBPC3504 THRU SKBPC3516

图1: I_o - T_c 曲线

FIG1: I_o - T_c Curve

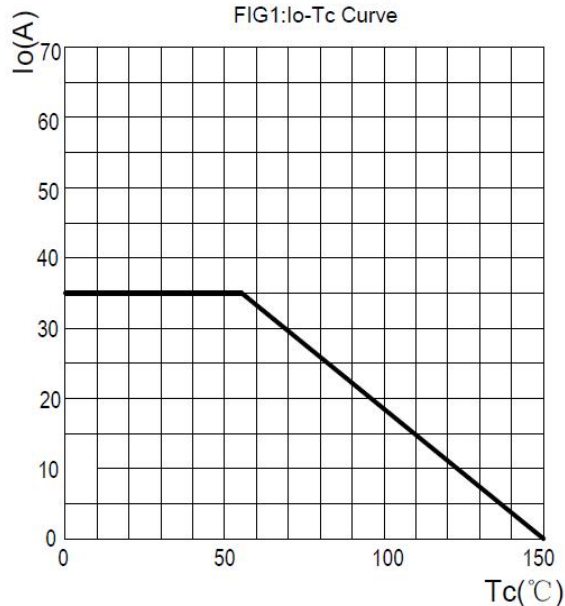


图2: 耐正向浪涌电流曲线

FIG2: Surge Forward Current Capability

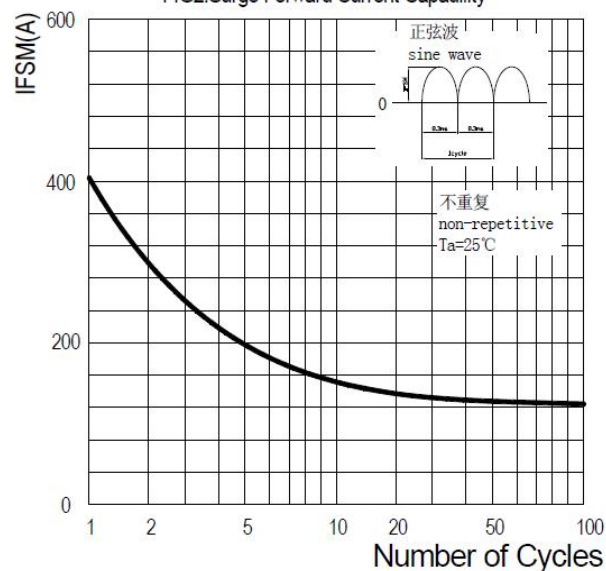


图3: 正向电压曲线

FIG3: Instantaneous Forward Voltage

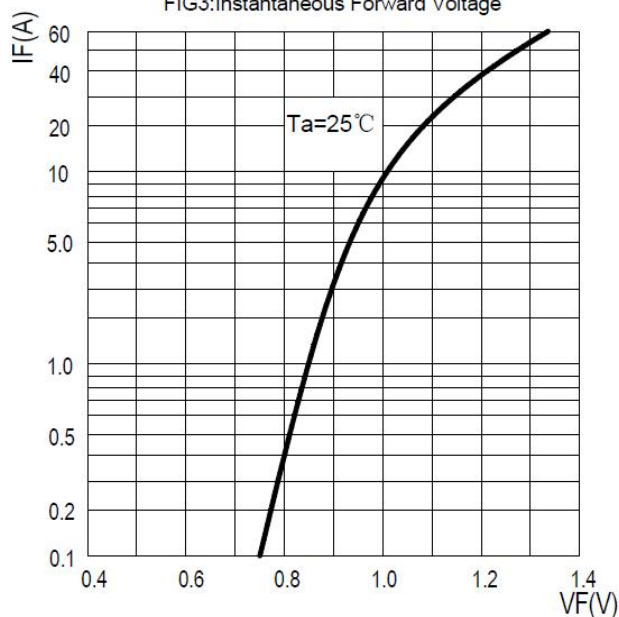
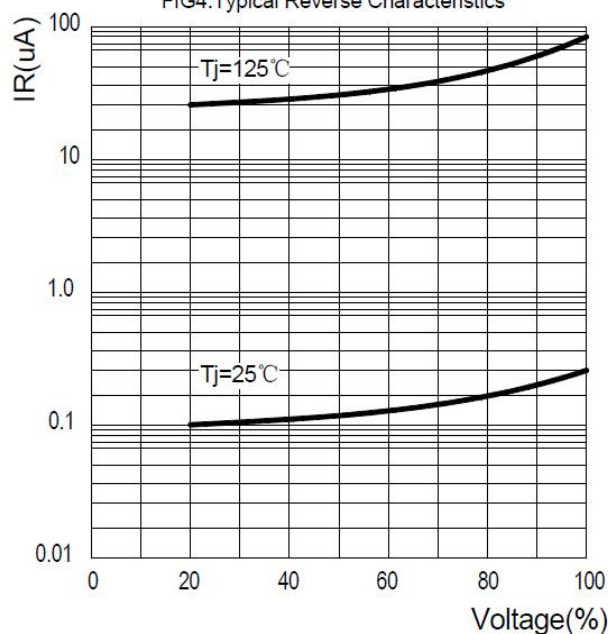


图4: 反向电流曲线

FIG4: Typical Reverse Characteristics



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