

Features

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

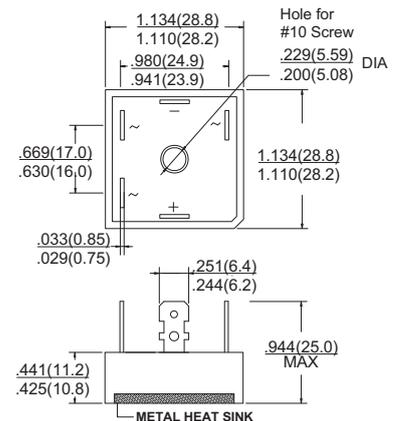
Applications

- 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

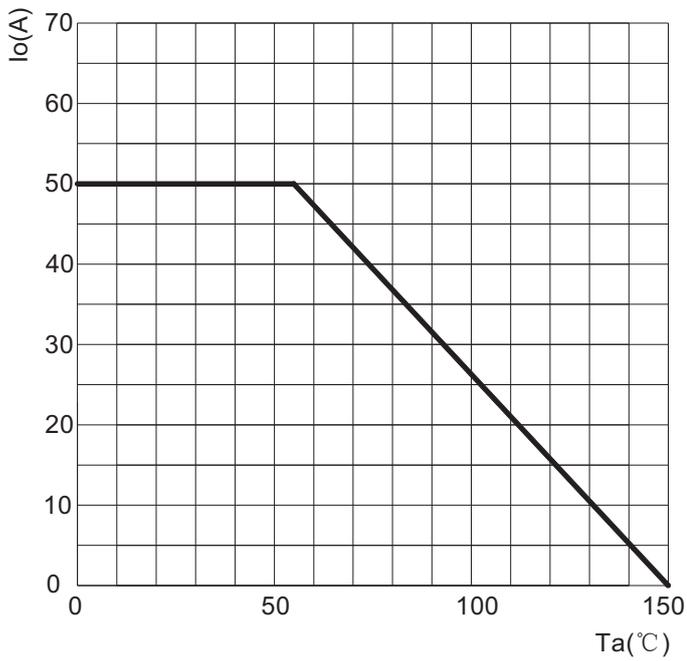


图2: 耐正向浪涌电流曲线
FIG2: Surge Forward Current Capability

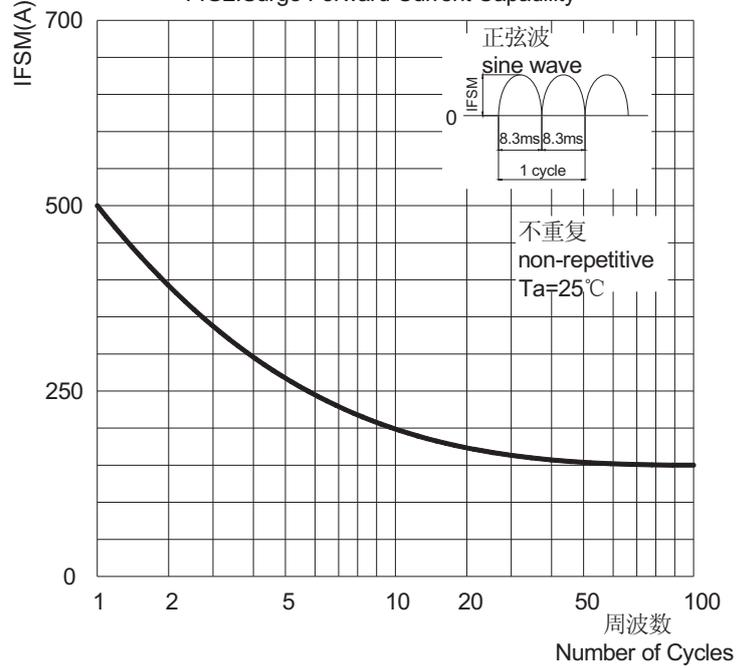


图3: 正向电压曲线
FIG3: Instantaneous Forward Voltage

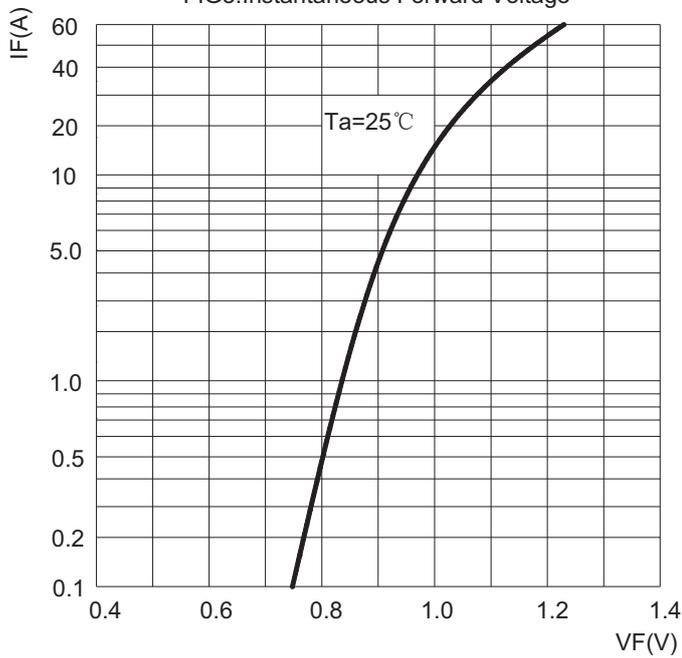
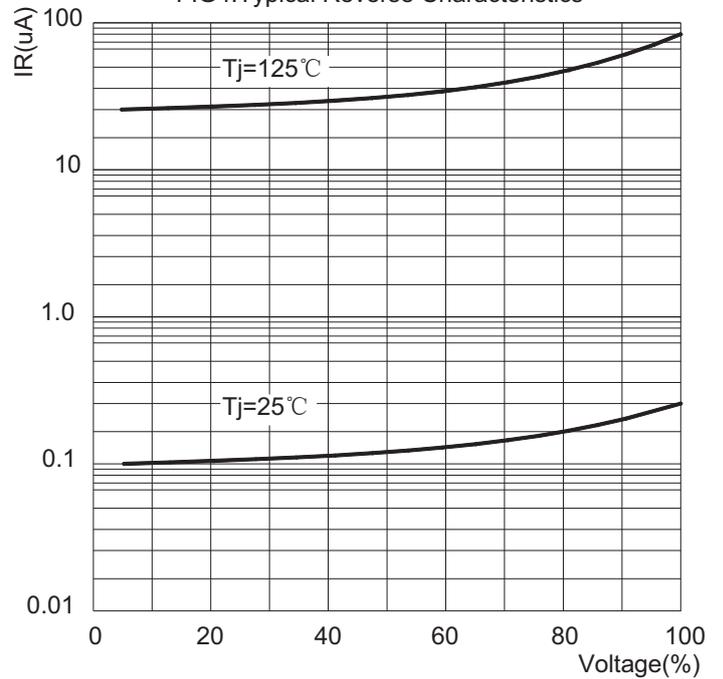


图4: 反向电流曲线
FIG4: Typical Reverse Characteristics



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