RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

SKBPC3504 THRU SKBPC3516

Features

- I_o 35A
- V_{RRM} 400V~1600V
- Glass passivated chip
- High surge forward current capability

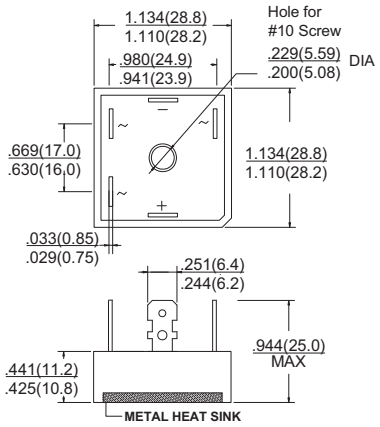
Applications

- 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



Dimensions for inches and (millimeters)

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

RATINGS	SYMBOL	SKBPC35							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°C	I_O	35							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	400							Amps
Current Squarad Time	I^2T	660							A^2/Sec
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	1.35							°C/W
Dielectric Strength ,Terminals to case ,AC 1 minute	Vdis	2.5							KV
Operating and Storage Temperature Range	T_J, T_{STG}	-40 to+ 150							°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°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.

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RATING AND CHARACTERISTICS CURVES (SKBPC3504 THRU SKBPC3516)

图1：Io-Ta曲线
FIG1:Io-Ta Curve

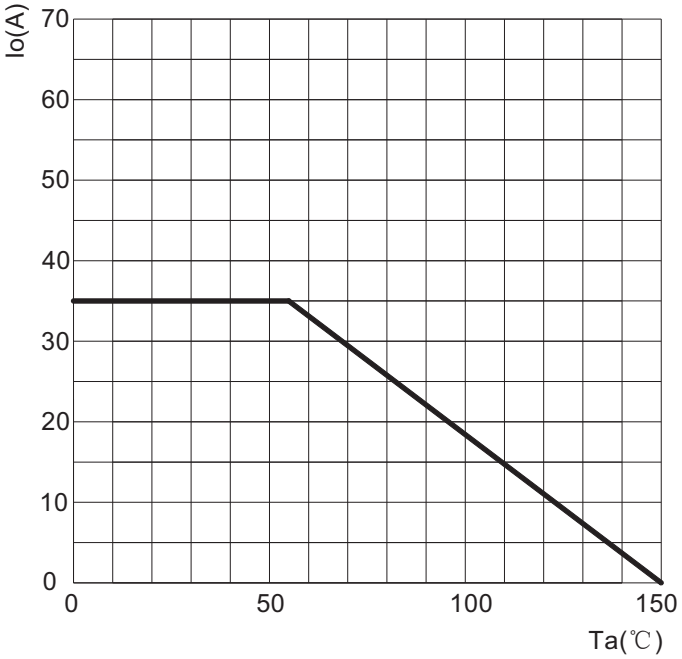


图2：耐正向浪涌电流曲线
FIG2:Surge Forward Current Capadility

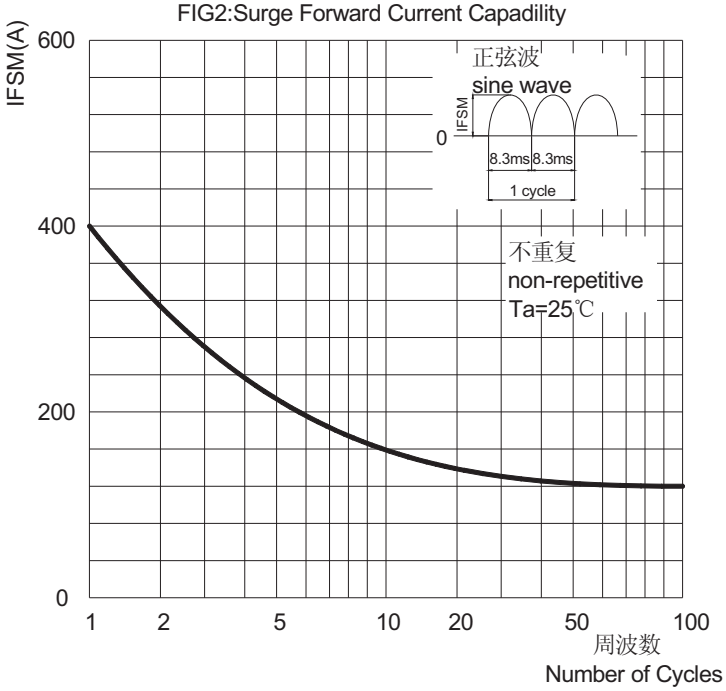


图3：正向电压曲线
FIG3:Instantaneous Forward Voltage

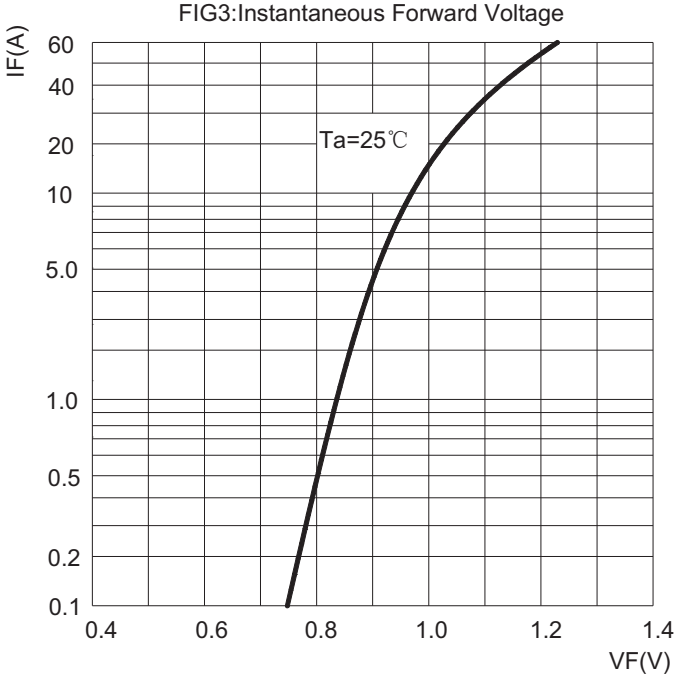
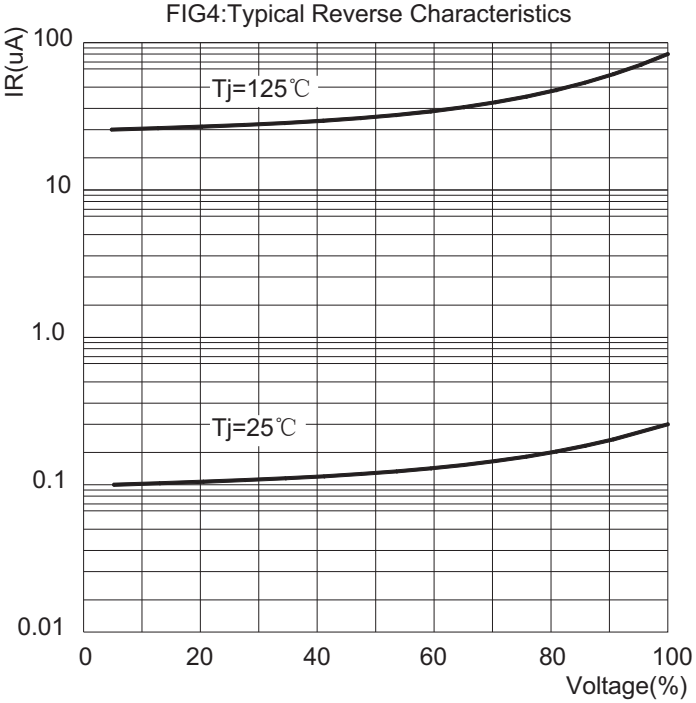


图4：反向电流曲线
FIG4:Typical Reverse Characteristics



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