

Unit: inch(mm)

特征 FEATURES

- * Metal case for Maximum Heat Dissipation
- * Surge overload ratings-400 Amperes
- * Low forward voltage drop

机械数据 MECHANICAL DATA

Case: Molded plastic body
Epoxy: UL 94V-0 rate flame retardant
Terminals: Plated .25"(6.35mm) Fasto lugs, solderable per MIL-STD-750, Method 2026 guaranteed
Polarity: As marked
Mounting position: Any
Weight: 30 grams

极限值和电参数 TA=25°C 除非另有规定

Maximum Ratings & Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified

	SYMB OLS	KBPC 50005	KBPC 5001	KBPC 5002	KBPC 5004	KBPC 5006	KBPC 5008	KBPC 5010	UNITS
最大可重复峰值反向电压 Maximum recurrent peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
最大平均方根电压 Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
最大直流阻断电压 Maximum dc blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
最大正向平均整流电流 Maximum average rectifier output current	I(AV)	50.0							Amps
正向峰值浪涌电流 8.3ms 单一正弦半波 Peak forward surge current 8.3ms single half sine-wave (JEDEC method)	IFSM	500							Amps
最大正向电压降 Maximum forward voltage drop per element at 25 A DC	VF	1.1							Volts
最大直流反向电流 Maximum DC reverse current at rated DC blocking voltage per element	IR	10 500							μ Amps
额定功率 I ² t rated for fusing (t>8.3ms)	I ² T	664							A Sec
典型结电容 Typical junction capacitance (per element) (Note 1)	CJ	300							pF
典型热电阻 Typical thermal resistance junction to case (per element) (Note 2)	R ^θ JC	2.5							°C/W
工作温度和存储温度 Operating and storage temperature range	TJ, TSTG	-55 to +125							°C

NOTES:

1. Measured at 1 Mhz and applied reverse voltage of 4.0 volts
2. Thermal Resistance from Junction to Case per leg.



RATING AND CHARACTERISTIC CURVES (TA=25°C UNLESS OTHERWISE NOTED)
KBPC50005 THRU KBPC5010

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

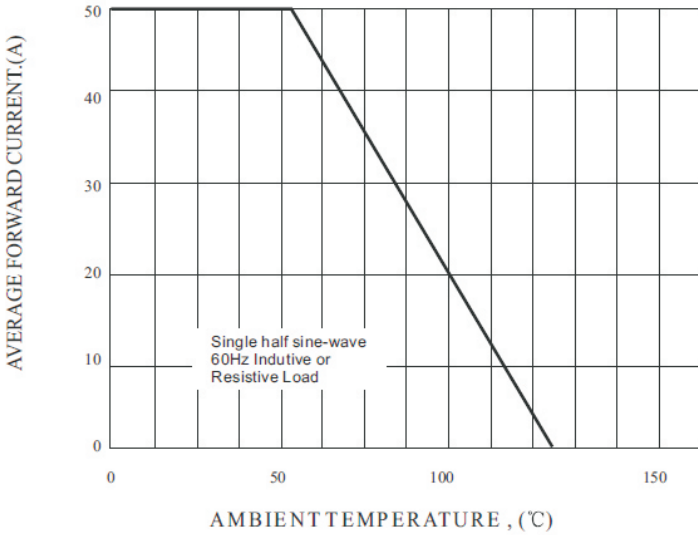


FIG. 2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

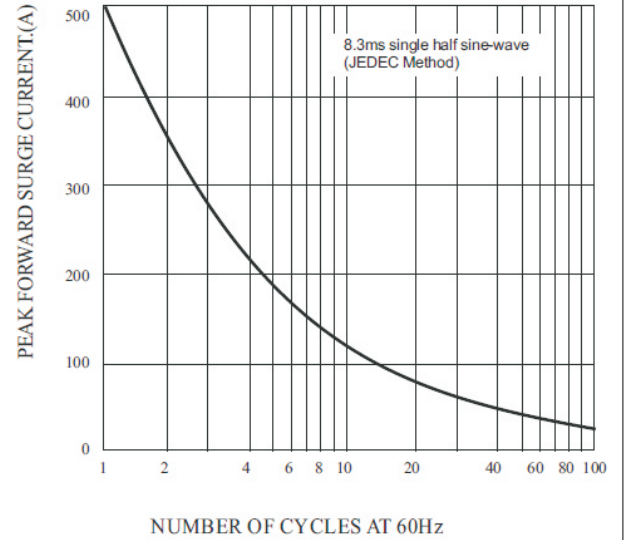


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

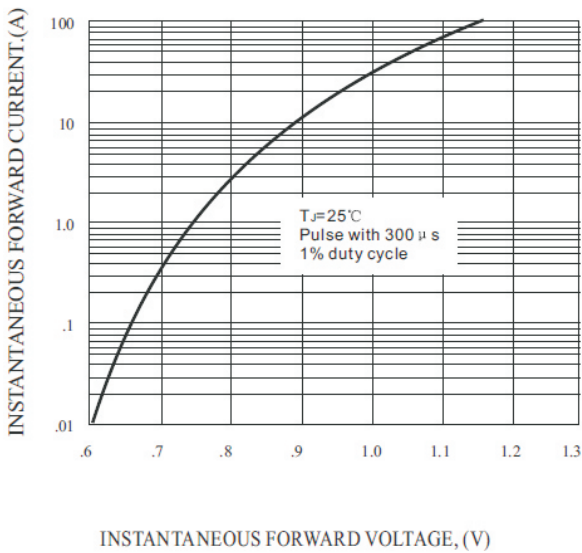


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

