

3A Glass Passivated Single-Phase Bridge Rectifier

特征/Features ◆ GPP芯片 Glass passivated chip ◆ 低反向漏电流 Low Reverse Leakage Current ◆ 高耐浪涌电流能力 High surge current capability	外形尺寸/Outline Dimensions Case: KBP Series Dimensions in millimeters  The technical drawing shows the KBP Series diode from two perspectives. The top view (left) shows a square package with a 4.0mm width, a 14.54mm total width, and a 11.44mm distance between mounting holes. The side view (right) shows a package with a 14.54mm width, a 1.28mm thickness, and a 3.6mm distance between mounting holes. The mounting holes are spaced 3.75mm apart. The package has a 19.20mm total length, an 8.20mm distance from the top edge to the mounting holes, and a 14.60mm distance from the bottom edge to the mounting holes. The package is marked with a '+' sign, a '~' sign, and a '-' sign. The dimensions are given in millimeters, and the tolerance for the mounting hole diameter is 0.74 (±0.02).
机械参数/Mechanical Data ◆ 本体：塑封 Case: plastic package ◆ 标识/极性：本体标记 Marking / Polarity: Marked on Body ◆ 重量：约克 Weight: About 1.5 grams	

极限值/Maximum Ratings and Thermal Characteristics @ Ta = 25°C unless otherwise noted

符号 Symbol	特性 Characteristic	KBP3							单位 Unit
		005	01	02	04	06	08	10	
VRRM	最大反向重复峰值电压 Maxmum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
IF (AV)	平均整流输出电流 Average Forward Output Rectified Current@Ta =50℃	3							A
VF	正向峰值电压 Forward Voltage Per Leg @IFM =3A	1.1							V
IFSM	正向浪涌电流 Peak Forward Surge Current 8.3ms Single Half Sine-wave superimposed on rated load	60							A
IR	反向漏电流 Maximum DC reverse current at rated Ta = 25℃ DC blocking voltage per leg Ta = 125℃	5 500							uA
i²t	热容值 Rating for fusing (t<8.3ms)	15							A²S
RθJC	热阻 Maximum thermal resistance per leg	10							℃/W
Tj, TSTG	结温, 存储条件 Operating Junction and storage temperature range	-55~150							℃

Note:

- (1) Junction to case with heatsink
- (2) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw .



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■ 特性曲线（典型） Characteristics(Typical)

Fig 1-forwardCurrent derating Curve

图1正向电流降额曲线

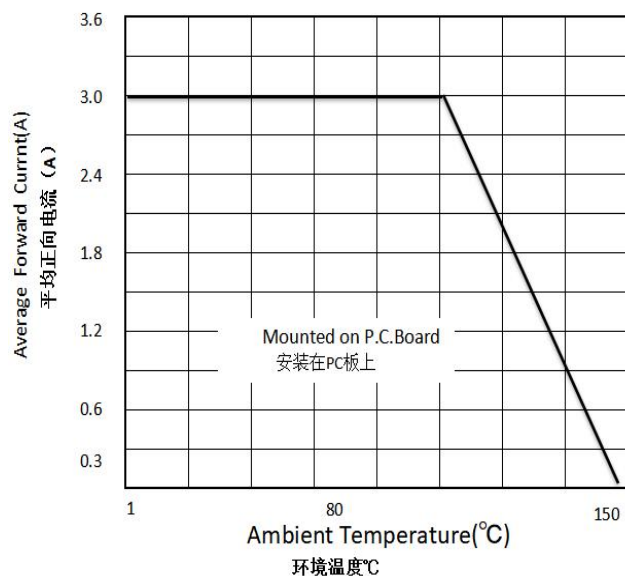


Fig.2-Maximum Non-Repetitive Surge Current

图2 最大不重复正向浪涌曲线

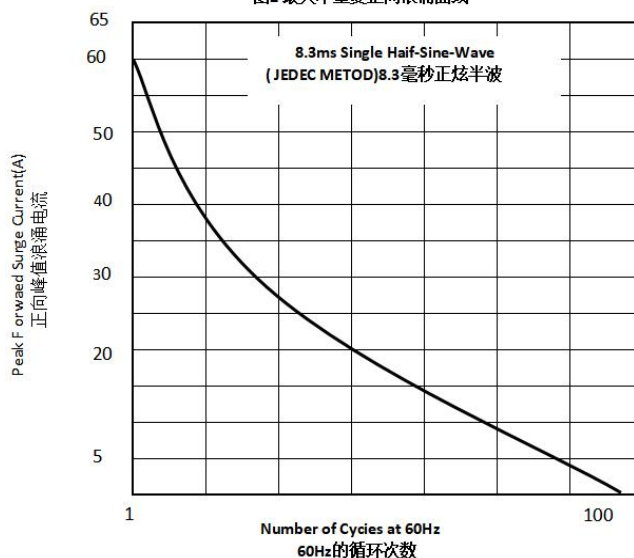


Fig.3-Typical Reverse Characteristics

图3.典型的反向特性

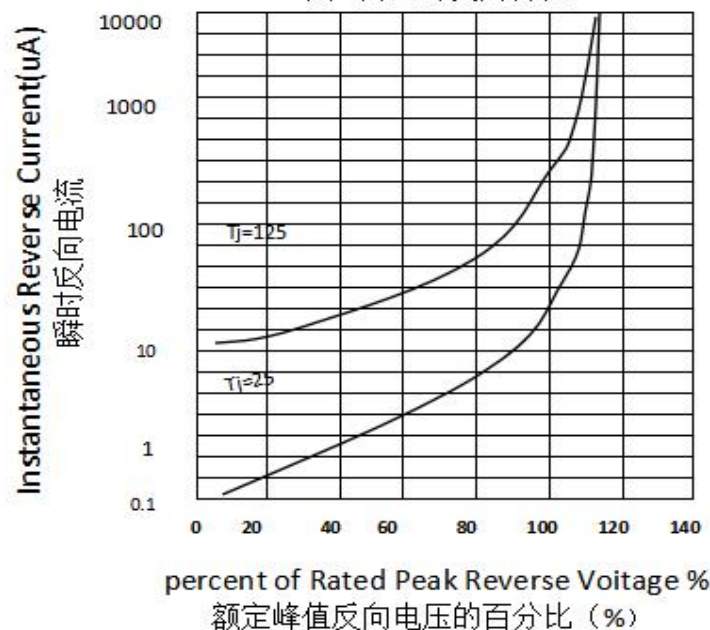


Fig.4-Typical Forward Characteristics

图4.典型的正向特性

