

4A Glass Passivated Single-Phase Bridge Rectifier

特征/Features	外形尺寸/Outline Dimensions
◆ 玻璃钝化芯片 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 ◆ 接线端与壳体间绝缘耐压2500V Case to Terminal Isolation Voltage 2500V	Case: KBL Series Dimensions in millimeters
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 4.2 grams	

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

符号 Symbol	特性 Characteristic	KBL407	单位 Unit
V _{RRM}	最大反向重复峰值电压 Maximum Recurrent Peak Reverse Voltage	1000	V
I _F (AV)	平均整流输出电流 Average Forward Output Rectified Current@Ta =85°C	4	A
V _F	正向峰值电压 Forward Voltage Per Leg @I _{FM} =4.0A	1.1	V
I _{FSM}	正向浪涌电流 Peak Forward Surge Current 8.3ms Single Half Sine-wave superimposed on rated load	125	A
I _R	反向漏电流 Maximum DC reverse current at rated Ta = 25°C DC blocking voltage per leg Ta = 125°C	5 500	uA
i ² t	热容值 Rating for fusing (t<8.3ms)	127	A ² S
V _{isol}	绝缘耐压 Rms isolation voltage from case to leads	2500	V
R _{θJC}	热阻 Maximum thermal resistance per leg	4.2	°C/W
T _j , T _{STG}	结温， 存储条件 Operating Junction and storage temperature range	-55~150	°C

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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曲线（典型） Characteristics(Typical)

FIG.2-FORWARD DERATING CURRENT

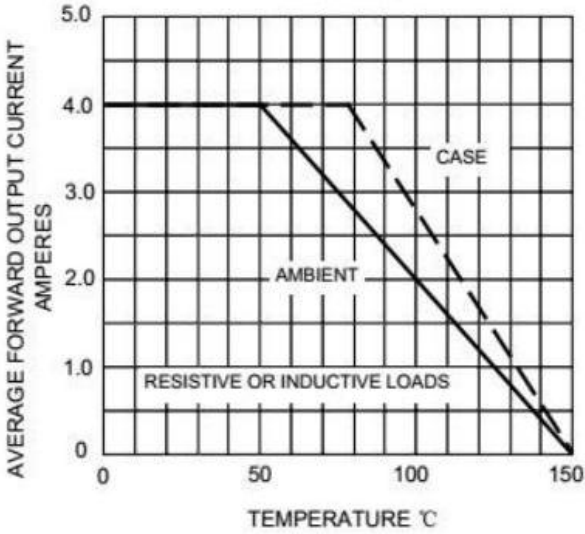


FIG.1-MAXIMUM NON-REPETITIVE SURGE CURRENT

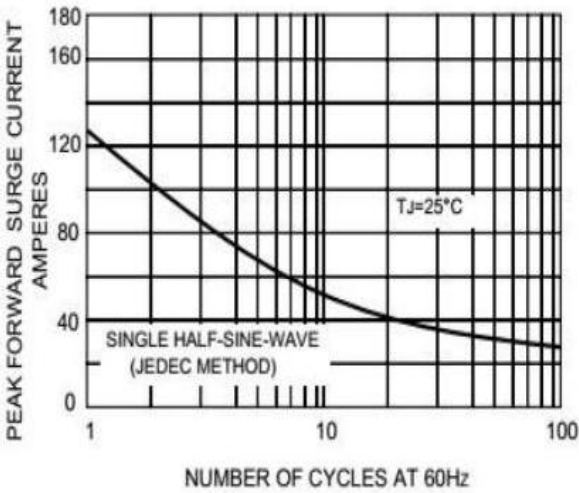


FIG.3-TYPICAL FORWARD CHARACTERISTICS

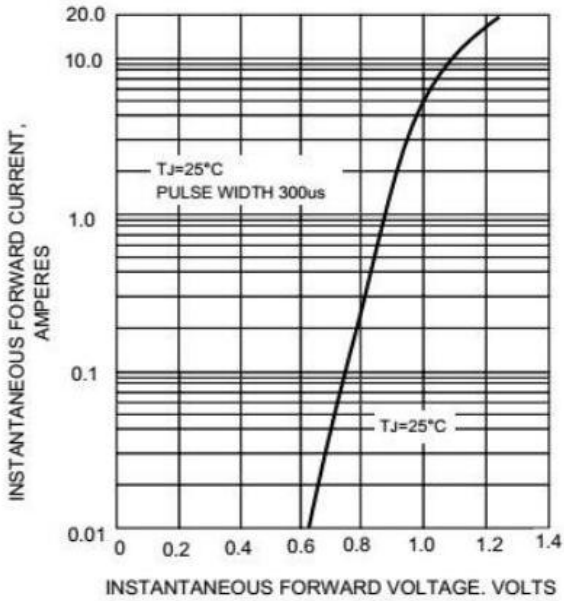


FIG.4-TYPICAL REVERSE CHARACTERISTICS

