

4.0A,1000V 玻璃钝化整流桥

4.0A,1000V Glass Passivated Bridge Rectifier

■特征 Features

- 玻璃钝化芯片
Glass passivated chip
- 低反向漏电流
Low reverse leakage current
- 80A 高耐浪涌电流能力
High surge current capability to 80 Amperes
- 额定雪崩能量
Avalanche Energy Rated
- 低正向电压
Low Forward Voltage

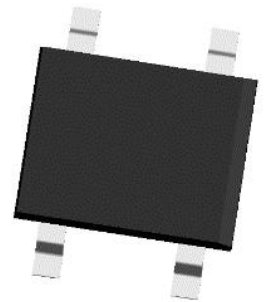
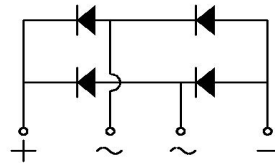
■应用范围 Applications

- 家用电器
Household electric appliances
- 工业电源
Industrial power supply
- 开关式电源
Switching mode power supply
- 通用单相桥式整流桥
General purpose single phase bridge rectifier

■机械参数 Mechanical Data

- 本体：塑封外壳
Case : Molded plastic case
- 极性：极性符号铸在管体上
Polarity: Polarity symbols being marked on body
- 重量：约 0.25 克
Weight : About 0.25 grams

关键参数 KEY PARAMETERS		
参数 PARAMETER	数值 VALUE	单位 UNIT
$I_{F(AV)}$	4.0	A
V_{RRM}	1000	V
I_{FSM}	100	A
Package	DB-S	



■最大额定值 Maximum Ratings @ Ta = 25°C unless otherwise noted

参数 PARAMETER	符号 SYMBOL	DB407S	单位 UNIT
反向重复峰值电压 Maximum recurrent peak reverse voltage	V_{RRM}	1000	V
反向不可重复峰值电压 Reverse non-repetitive Peak Reverse Voltage	V_{RSM}	1100	V
平均整流输出电流 Average rectified output current	$I_{(AV)}$	4.0	A
最大正向浪涌电流, 10 ms 单半正弦波叠加在额定负载上 Peak surge forward current, 10 ms single half sine-wave superimposed on rated load	I_{FSM}	100	A
热容值, 1ms<t<10ms, Tj=25°C, 单个二极管 Rating for fusing, 1ms<t<10ms, Tj=25°C, Rating of per diode	I^2t	50	A ² s
结温 Junction temperature	T_j	-55 ~ +150	°C
存储温度 Storage temperature	T_{STG}	-55 ~ +150	°C

■电性特性 Electrical Characteristics @ Ta = 25°C unless otherwise noted

参数 PARAMETER	条件 CONDITIONS	符号 SYMBOL	额定值 RATED VALUE	单位 UNIT
正向峰值电压 Peak Forward Voltage	IF=2A, Tj=25°C	VF	0.95	V
	IF=2A, Tj=125°C		0.85	V
反向峰值电流 Peak Reverse Current	VR=VRRM, 脉冲测试, 单个二极管的额定值 VR=VRRM, Pulse measurement, Rating of per diode	Tj=25°C	2.0	μA
		Tj=125°C	100.0	

■热特性 Thermal Characteristics @ Ta = 25°C unless otherwise noted

参数 PARAMETER	符号 SYMBOL	额定值 RATED VALUE	单位 UNIT
结到环境的热阻 Junction-to-ambient thermal resistance	RθJA	57.0	°C/W
结到引脚的热阻 Junction-to-lead thermal resistance	RθJL	15.0	°C/W

■特性曲线 Characteristic Curve

FIG.1 . Derating Curve For Output Rectified Current

图 1. 电流降额曲线

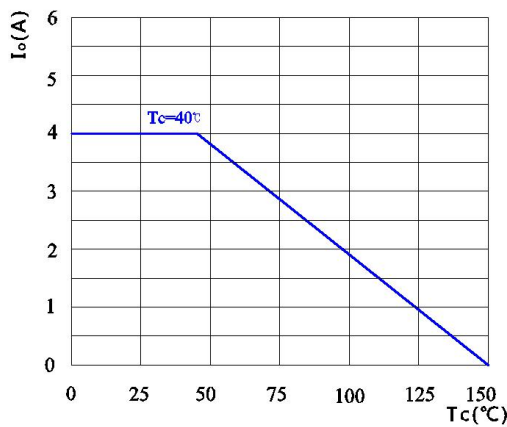


FIG.3. Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

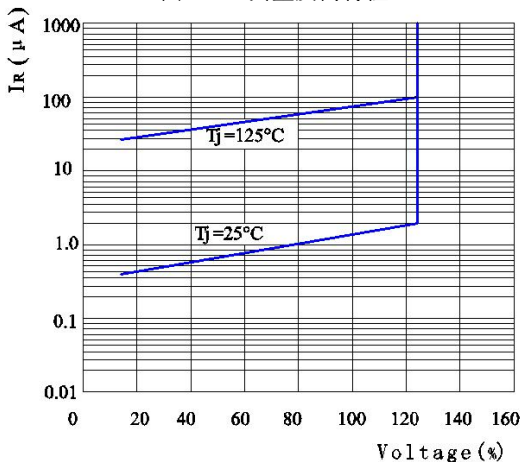


FIG.2 . Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

图 2. 最大正向不重复峰值浪涌电流

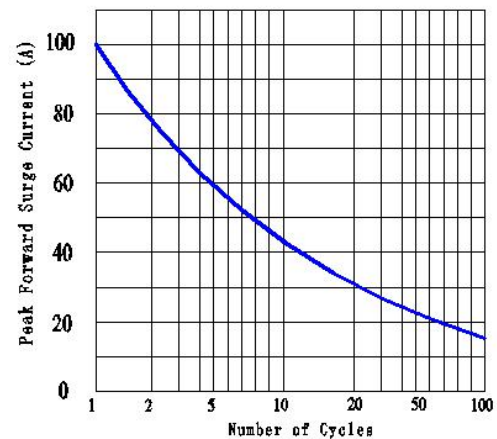
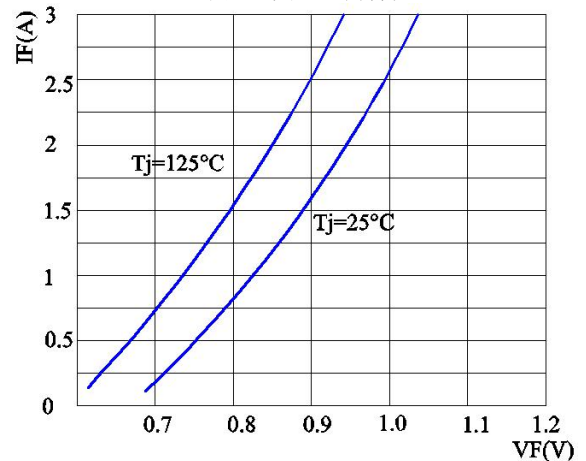


FIG.4. Typical Forward Characteristics Per Bridge Element


图 4. 典型正向特性



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■ 标记图 Marking Diagram



 : 公司LOGO

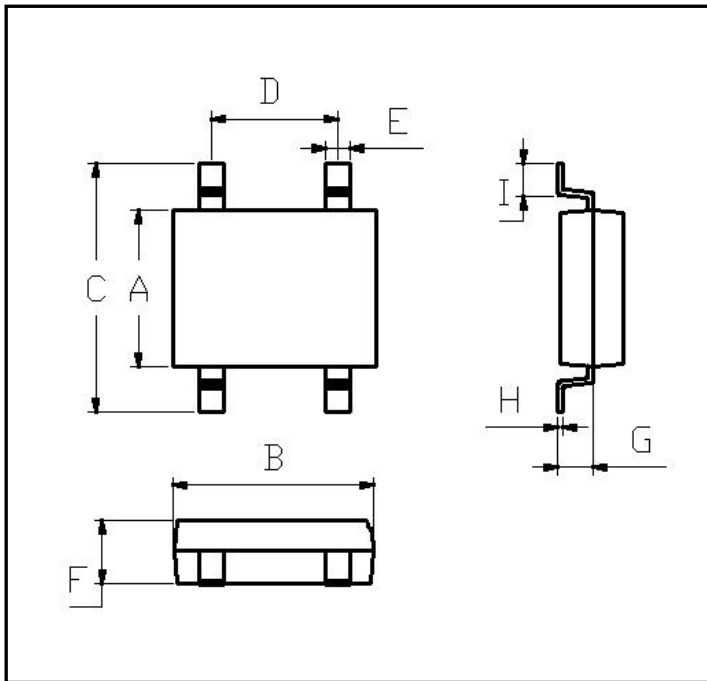
DB407S: 标识代码

DB-S: DB-S系列

4: 电流4.0A

07: 电压1000V

■ 尺寸图 Dimension Drawing



Dim	min	max
A	6.00	6.60
B	7.70	8.30
C	9.60	10.00
D	4.80	5.40
E	1.00	1.20
F	1.40	1.80
G	1.00	1.40
H	0.15	0.35
I	0.90	1.10
Dimensions in millimeters		

Notice

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