

50A,600V-1200V 单相玻璃钝化整流桥 50A,600V-1200V Single Phase Glass Passivated Bridge Rectifier

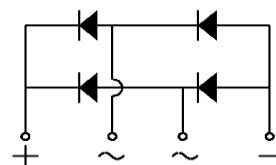
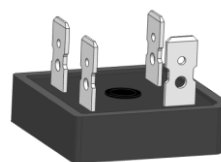
■特征 Features

- 玻璃钝化芯片
Glass passivated chip
- 低反向漏电流
Low reverse leakage current
- 高耐浪涌电流能力
High surge current capability
- UL 档案编号# E249161
UL recognized file # E249161
- 符合 RoHS 指令 2011/65/EU
Compliant to RoHS directive 2011/65/EU

关键参数 KEY PARAMETERS		
参数 PARAMETER	数值 VALUE	单位 UNIT
$I_{F(AV)}$	50	A
V_{RRM}	600-1200	V
I_{FSM}	500	A
Package	S-VB-D	

■应用范围 Applications

- 电焊机
Electric welder
- 工业电源
Industrial power supply
- 逆变器
Inverter
- 不间断电源
Uninterruptible power supply



■机械参数 Mechanical Data

- 本体: S-VB-D
Case : S-VB-D
- 极性: 极性符号铸在管体上
Polarity: Polarity symbols being marked on body
- 安装扭矩: 12.0 kgf.cm
Mounting torque: 12.0 kgf.cm max
- 重量: 约 20.5 克
Weight : About 20.5 grams

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

参数 PARAMETER	符号 SYMBOL	S50VB60 D	S50VB80 D	S50VB100 D	S50VB120 D	单位 UNIT
反向重复峰值电压 Maximum recurrent peak reverse voltage	V_{RRM}	600	800	1000	1200	V
平均整流输出电流 Average rectified output current	$I_{(AV)}$	50				A
最大正向浪涌电流, 8.3ms 单半正弦波叠加在额定负载上 Peak surge forward current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	500				A
热容值, 1ms<t<8.3ms, Tj=25°C, 单个二极管 Rating for fusing, 1ms<t<8.3ms, Tj=25°C, Rating of per diode	I^2t	1037				A ² s
结温 Junction temperature	Tj	-55 ~ +150				°C
存储温度 Storage temperature	T _{STG}	-55 ~ +150				°C
绝缘耐压, 端子与外壳之间外加交流电 1 分钟 Dielectric strength, terminals to case AC 1 minute	V _{dis}	2.5				KV

电性特性 Electrical Characteristics @ Ta = 25℃ 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	$I_F = 25A$	V_F	1.1	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	I_R	5	μA
			500	

热特性 Thermal Characteristics @ Ta = 25℃ unless otherwise noted

参数 PARAMETER	符号 SYMBOL	额定值 RATED VALUE	单位 UNIT
结到环境的热阻, 无散热片 Junction to ambient thermal resistance, without heatsink	$R_{\theta JA}$	26	$^{\circ}C/W$
结到管壳的热阻, 有散热片 Junction to case thermal resistance, with heatsink	$R_{\theta JC}$	0.9	$^{\circ}C/W$

特性曲线 Characteristic Curve

FIG1.Derating Curve For Output Rectified Current

图 1. 电流降额曲线

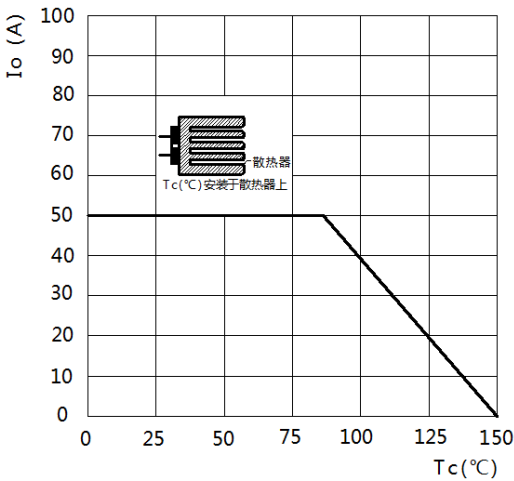


FIG2.Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

图 2. 最大正向不重复峰值浪涌电流

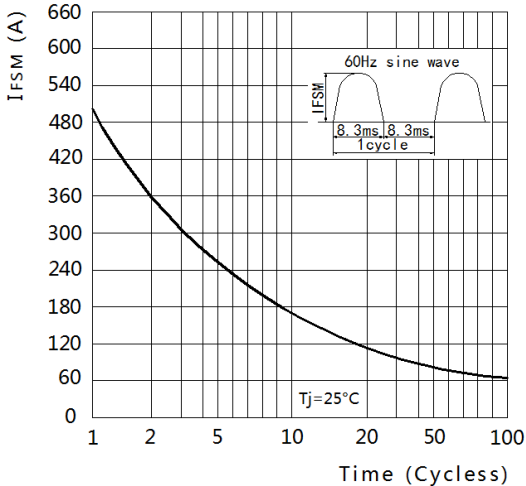


FIG3.Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

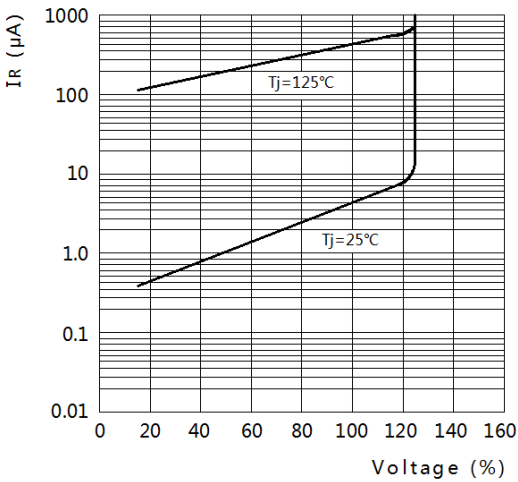
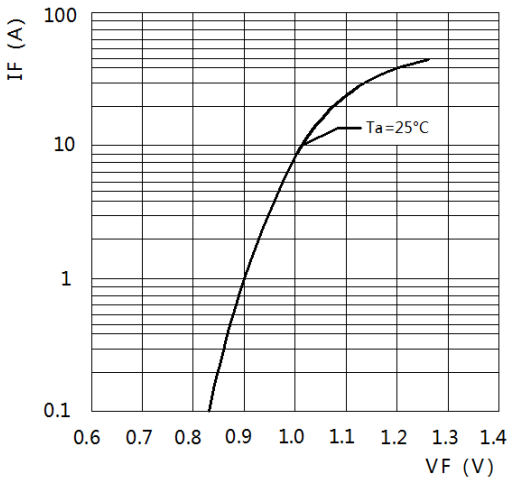
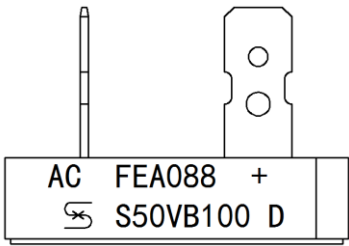


FIG4.Typical Forward Characteristics Per Bridge Element

图 4. 典型正向特性

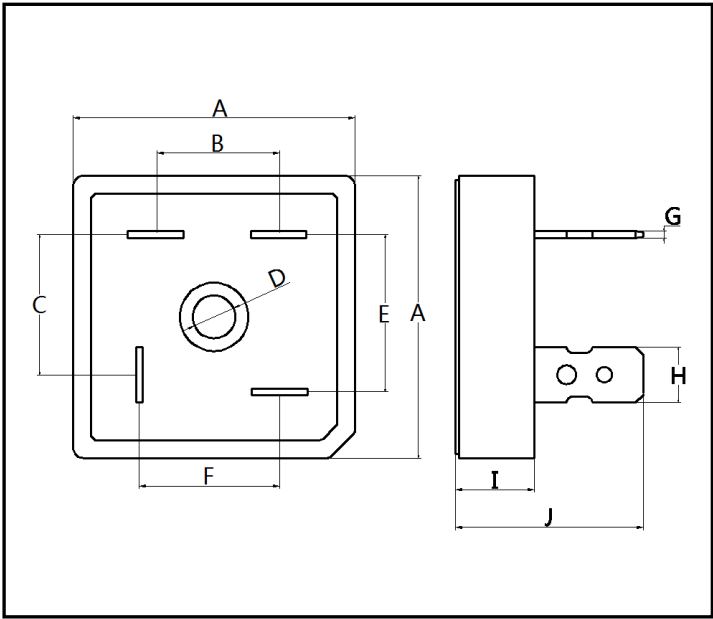


■ 标记图 Marking Diagram



S50VB100 D：标识代码
Marking code
FEA088：制程码
Process code

■ 尺寸图 Dimension Drawing



Dim.	Unit(mm)		Unit(inch)	
	Min.	Max.	Min.	Max.
A	32.50	33.50	1.280	1.319
B	13.90	14.90	0.547	0.587
C	15.90	16.90	0.626	0.665
D	4.50	5.50	0.177	0.217
E	17.90	18.90	0.705	0.744
F	15.90	16.90	0.626	0.665
G	0.60	1.00	0.024	0.039
H	6.10	6.50	0.240	0.256
I	8.70	9.70	0.343	0.382
J	21.00	23.00	0.827	0.906

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