

60A,600V-1200V 单相玻璃钝化整流桥 60A,600V-1200V Single Phase Glass Passivated Bridge Rectifier

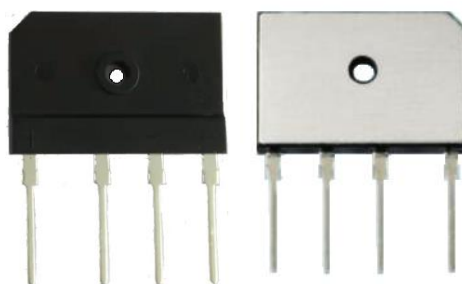
■特征 Features

- 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
$I_{F(AV)}$	60	A
V_{RRM}	600-1200	V
I_{FSM}	550	A
Package	HD-SB	

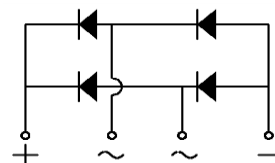
■应用范围 Applications

- 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: HD-SB
Case : HD-SB
- 极性: 极性符号铸在管体上
Polarity: Polarity symbols being marked on body
- 安装扭矩: 8.0kgf.cm
Mounting torque: 8.0kgf.cm max
- 重量: 约 7.2 克
Weight : About 7.2 grams



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

参数 PARAMETER	符号 SYMBOL	HD60SB60	HD60SB80	HD60SB100	HD60SB120	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	$I_{(AV)}$	60				A
带散热片, $T_c=100^{\circ}\text{C}$ with heatsink, $T_c=100^{\circ}\text{C}$						
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}	550				A
热容值, $1\text{ms}<t<8.3\text{ms}$, $T_j=25^{\circ}\text{C}$, 单个二极管 Rating for fusing, $1\text{ms}<t<8.3\text{ms}$, $T_j=25^{\circ}\text{C}$, Rating of per diode	I^2t	1255				A^2s
结温 Junction temperature	T_j	$-55 \sim +150$				$^{\circ}\text{C}$
存储温度 Storage temperature	T_{STG}	$-55 \sim +150$				$^{\circ}\text{C}$
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}	2.0				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	$I_F = 30A$	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	$R_{\theta JA}$	22	℃/W
结到管壳的热阻, 有散热片 Junction to case thermal resistance, with heatsink	$R_{\theta JC}$	0.65	℃/W

■特性曲线 Characteristic Curve

FIG1.Derating Curve For Output Rectified Current

图 1. 电流降额曲线

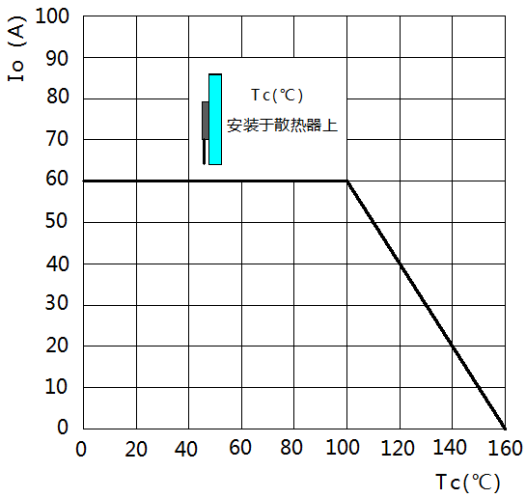


FIG2.Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

图 2. 最大正向不重复峰值浪涌电流

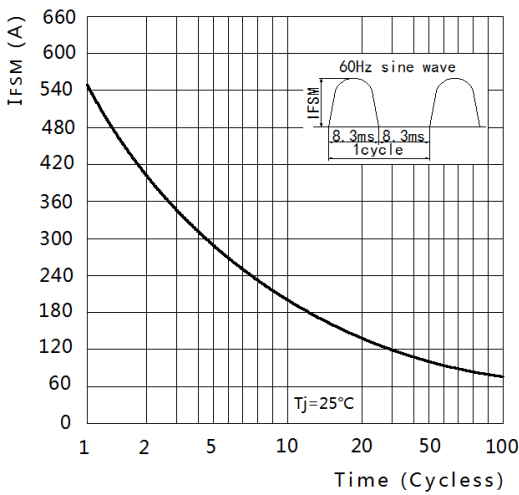


FIG3.Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

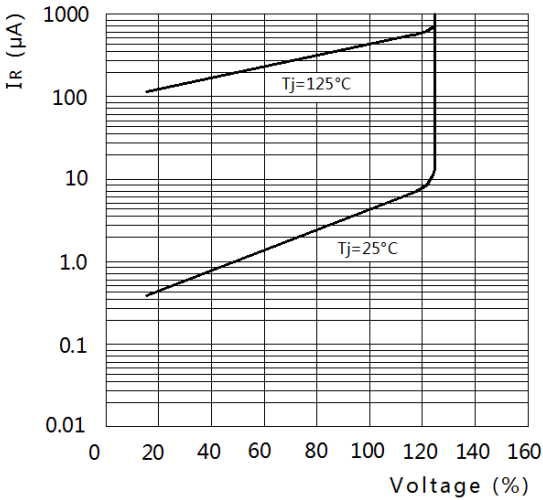
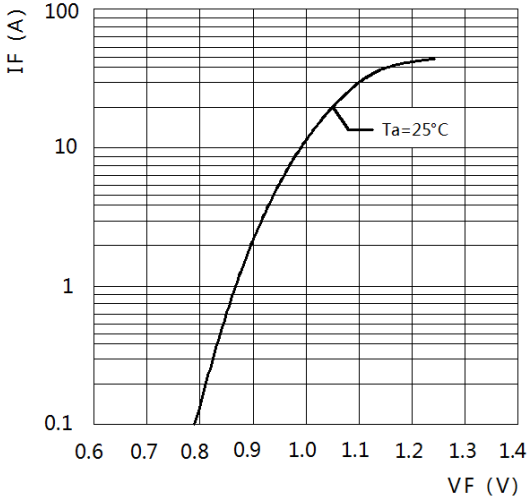
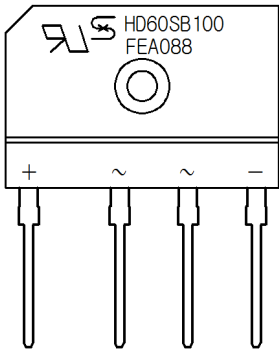


FIG4.Typical Forward Characteristics Per Bridge Element

图 4. 典型正向特性

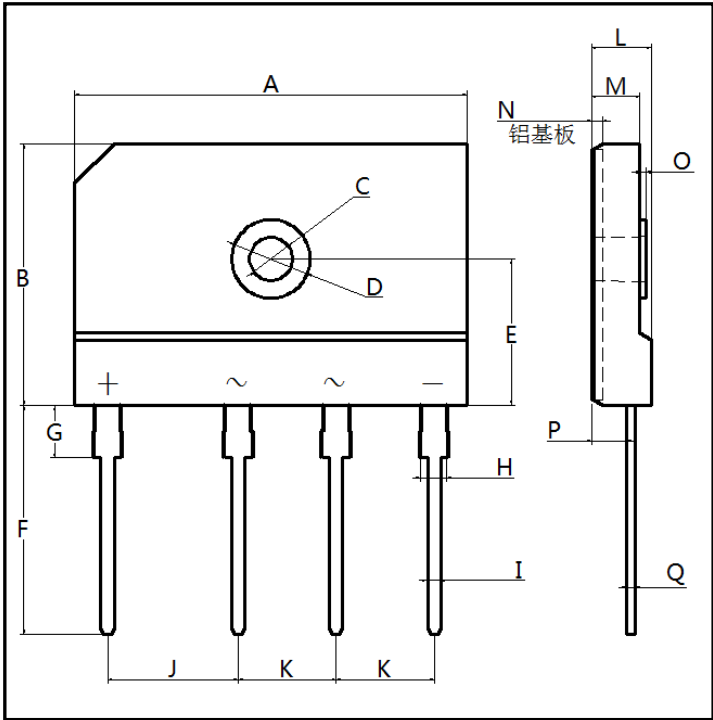


■ 标记图 Marking Diagram



HD60SB100：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	29.70	30.30	1.169	1.193
B	19.70	20.30	0.776	0.799
C	3.10	3.50	0.122	0.138
D	5.80	6.20	0.228	0.244
E	11.00	11.40	0.433	0.449
F	17.00	18.00	0.669	0.709
G	3.50	4.50	0.138	0.177
H	1.80	2.20	0.071	0.087
I	0.90	1.10	0.035	0.043
J	9.80	10.20	0.386	0.402
K	7.30	7.70	0.287	0.303
L	4.40	4.80	0.173	0.189
M	3.50	3.90	0.138	0.154
N	0.75	0.95	0.030	0.037
O	0.30	0.70	0.012	0.028
P	2.50	2.90	0.098	0.114
Q	0.55	0.75	0.022	0.030

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