35A,800V-1600V 三相玻璃钝化整流桥
35A,800V-1600V Three Phase Glass Passivated Bridge Rectifier

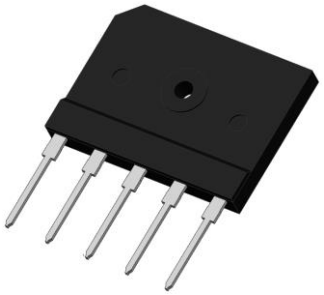
■特征 Features

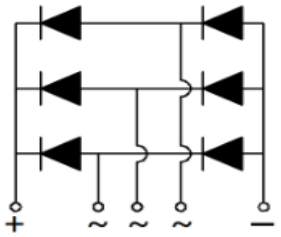
- ➢玻璃钝化芯片
  Glass passivated chip
- ➢低反向漏电流
  Low reverse leakage current
- ➢高耐浪涌电流能力
  High surge current capability
- ➢UL 档案编号# E249161
  UL recognized file # E249161
- ➢符合 RoHS 指令 2011/65/EU
  Compliant to RoHS directive 2011/65/EU

关键参数 KEY PARAMETERS		
参数 PARAMETER	数值 VALUE	单位 UNIT
$I_{F(AV)}$	35	A
V_{RRM}	800-1600	V
I_{FSM}	450	A
Package	SGBJ	

■应用范围 Applications

- ➢伺服器
  Server
- ➢变频器
  Frequency converter
- ➢工业电源
  Industrial power supply





■机械参数 Mechanical Data

- ➢本体：SGBJ
  Case : SGBJ
- ➢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 10 克
  Weight : About 10 grams

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

参数 PARAMETER	符号 SYMBOL	SGBJ3508	SGBJ3510	SGBJ3512	SGBJ3516	单位 UNIT
反向重复峰值电压 Maximum recurrent peak reverse voltage	V_{RRM}	800	1000	1200	1600	V
平均整流输出电流 带散热片, T_C=85℃ Average rectified output current with heatsink, T_C=85℃	$I_{(AV)}$	35				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}	450				A
热容值, 1ms<t<8.3ms, Tj=25℃, 单个二极管 Rating for fusing, 1ms<t<8.3ms, Tj=25℃, Rating of per diode	I^2t	840				A^2s
结温 Junction temperature	Tj	-55～+150				℃
存储温度 Storage temperature	T_{STG}	-55～+150				℃
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 = 17.5A		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	Tj=25℃	I_R	5	μA
		Tj=125℃		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	$R_{\theta JA}$	18	℃/W
结到管壳的热阻, 有散热片 Junction to case thermal resistance, with heatsink	$R_{\theta JC}$	1.5	℃/W

■特性曲线 Characteristic Curve

FIG1.Derating Curve For Output Rectified Current

图 1. 电流降额曲线

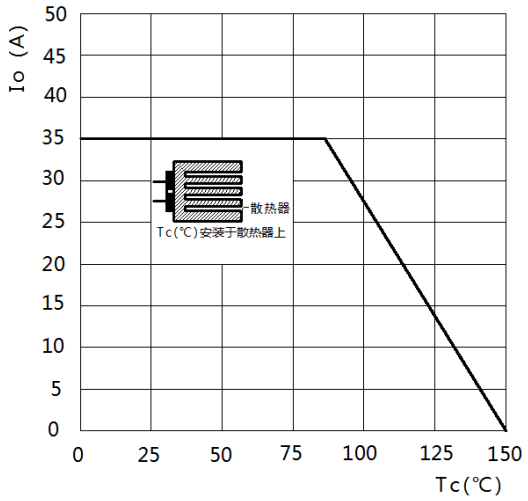


FIG2.Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

图 2. 最大正向不重复峰值浪涌电流

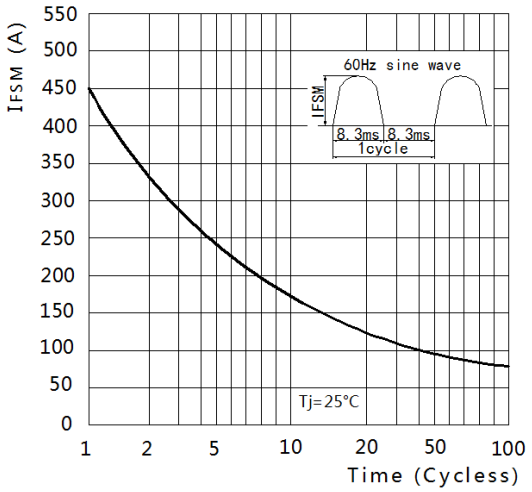


FIG3.Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

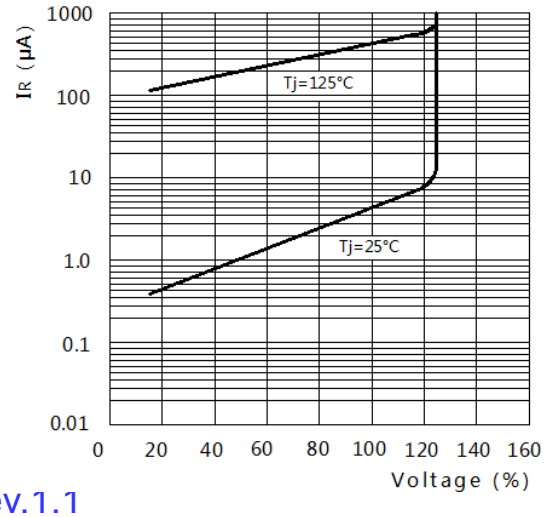
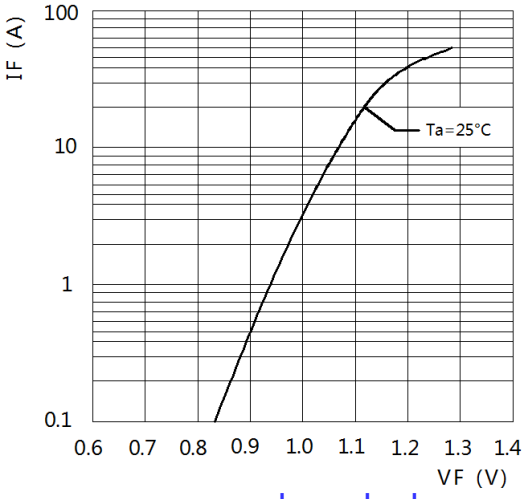
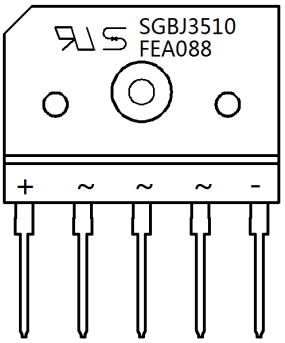


FIG4.Typical Forward Characteristics Per Bridge Element

图 4. 典型正向特性



■标记图 Marking Diagram



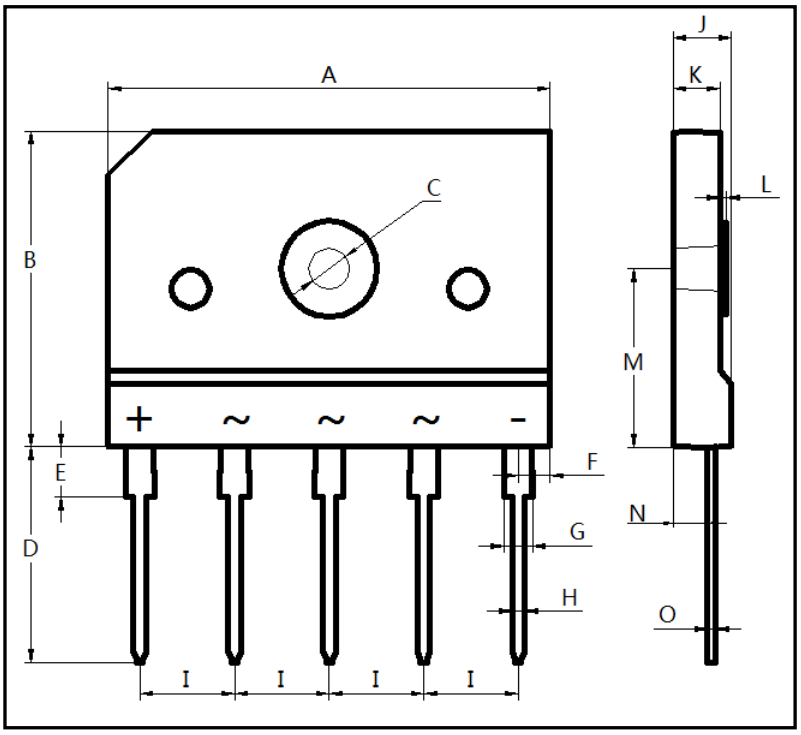
SGBJ3510：标识代码

Marking code

FEA088：制程码

Process code

■尺寸图 Dimension Drawing



Dim.	Unit(mm)		Unit(inch)	
	Min.	Max.	Min.	Max.
A	34.50	35.50	1.358	1.398
B	24.50	25.50	0.965	1.004
C	2.90	3.50	0.114	0.138
D	16.60	17.60	0.654	0.693
E	3.70	4.30	0.146	0.169
F	2.20	2.80	0.087	0.110
G	2.00	2.60	0.079	0.102
H	0.90	1.10	0.035	0.043
I	7.20	7.80	0.283	0.307
J	4.30	4.90	0.169	0.193
K	3.40	4.00	0.134	0.157
L	0.20	0.80	0.008	0.031
M	13.80	14.40	0.543	0.567
N	2.50	2.90	0.098	0.114
O	0.55	0.75	0.022	0.030