

35A,600V 玻璃钝化快恢复整流桥 35A,600V Glass Passivated Fast Recovery Bridge Rectifier

■特征 Features

- 超快恢复时间
Ultrafast Recovery Times
- 软恢复特性
Softer Recovery Characteristics
- 低正向电压
Low Forward Voltage
- 低反向漏电流
Low reverse leakage current

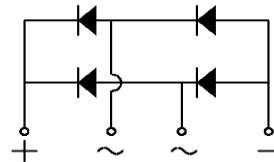
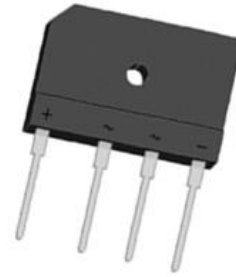
■应用范围 Applications

- 续流二极管
Free Wheeling Diode
- 电机控制器
Motor Controllers
- 开关式电源
Switching mode power supply
- 转换器 V
Converters
- 逆变器
Inverters
- 缓冲二极管
Snubber Diode
- 功率因数校正
PFC:Power Factor Correction

■机械参数 Mechanical Data

- 安装扭矩: 8.0kgf.cm
Mounting torque: 8.0kgf.cm max
- 重量: 约 6.8 克
Weight : About 6.8grams

关键参数 KEY PARAMETERS		
参数 PARAMETER	数值 VALUE	单位 UNIT
$I_{F(AV)}$	35	A
V_{RRM}	600	V
IFSM	400	A
TRR	40	ns
Package	D-SB-A	



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

特征/测试条件 Characteristic / Test Conditions	符号 SYMBOL	额定值 Rated value	单位 UNIT
反向重复峰值电压 Maximum recurrent peak reverse voltage	VRRM	600	V
最大平均正向电流, $T_C=100^\circ\text{C}$ Maximum Average Forward Current, $T_C=100^\circ\text{C}$	$I_{F(AV)}$	35	A
最大正向浪涌电流, 10ms 正弦半波 Peak surge forward current, 10ms single half sine-wave superimposed on rated load	IFSM	400	A
存储温度 Storage Temperature Range	TSTG	-55 ~ +150	°C
结温 Junction Temperature	TJ	-55 ~ +150	°C
耐焊接热, 高温持续 10 秒 Resistance to Soldering Heat, Lead Temperature for 10 Sec	TL	260	°C

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

特征/测试条件 Characteristic / Test Conditions	符号 SYMBOL	典型值 TYP	最大值 MAX	单位 UNIT	
正向峰值电压 Peak Forward Voltage	VF	IF=17.5A, Tj=25°C	1.4	2.0	V
		IF=17.5A, Tj=150°C	1.0	1.3	V
VR=VRRM, 脉冲测试, 单个二极管的额定值 VR=VRRM, Pulse measurement Rating of per diode	IR	Tj=25°C	/	5	μA
		Tj=150°C	/	500	
反向恢复时间 Reverse Recovery Time	TRR	IF=0.5A IRR=0.25A IRM=1A TC=25°C	40	45	ns

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

特征/测试条件 Characteristic / Test Conditions	符号 SYMBOL	典型值 TYP	最大值 MAX	单位 UNIT
结到管壳的热阻,有散热片 Junction to case Thermal Resistance, with heat sink	RθJC	1.0	/	°C/W

■ 特性曲线 Characteristic Curve

FIG.1 . Derating Curve For Output Rectified Current

图 1. 电流降额曲线

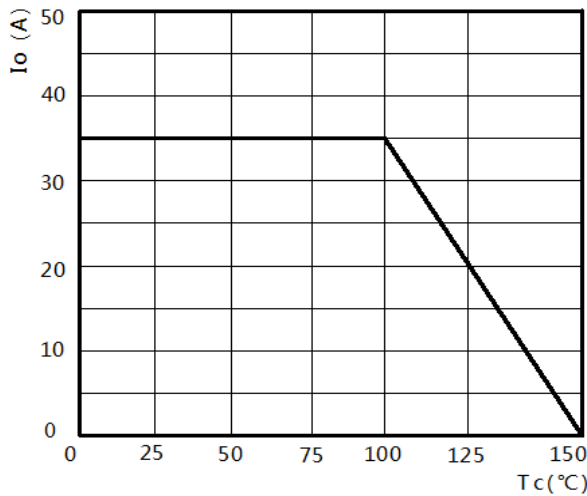


FIG3. Typical Reverse Characteristics Per Bridge Element

图 3. 典型反向特性

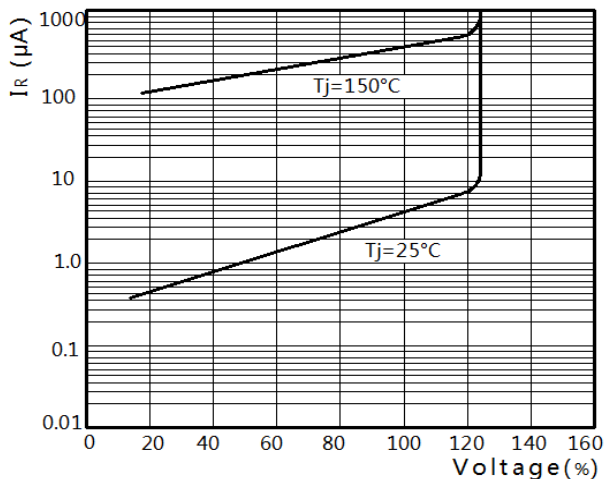


FIG.2 . Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

图 2. 最大正向不重复峰值浪涌电流

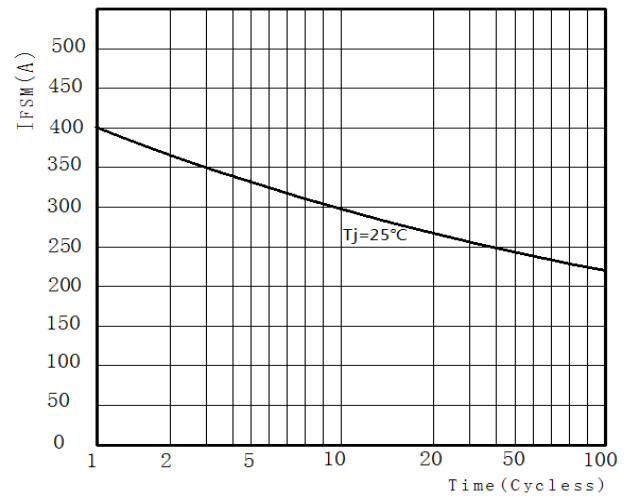
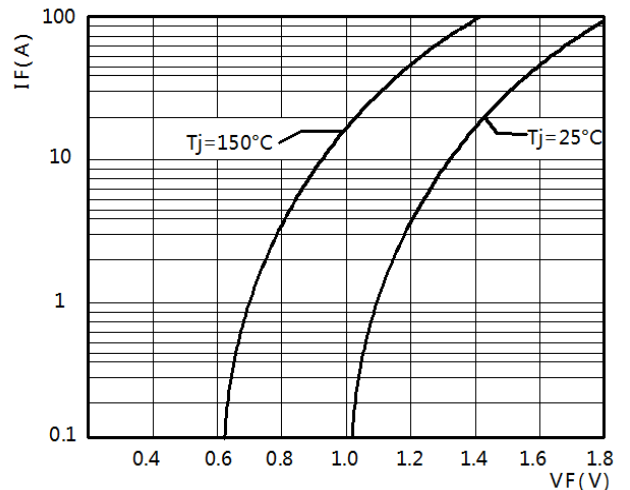
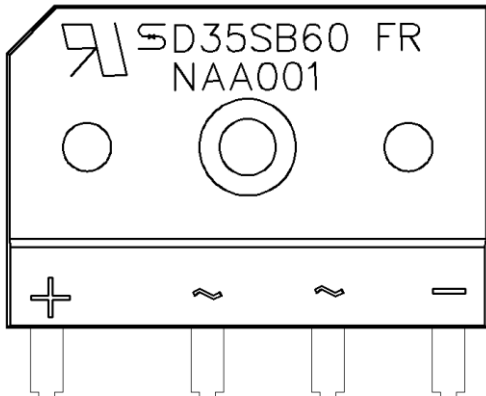


FIG4. Typical Forward Characteristics Per Bridge Element

图 4. 典型正向特性



■ 标记图 Marking Diagram



:UL 标识

: 公司LOGO

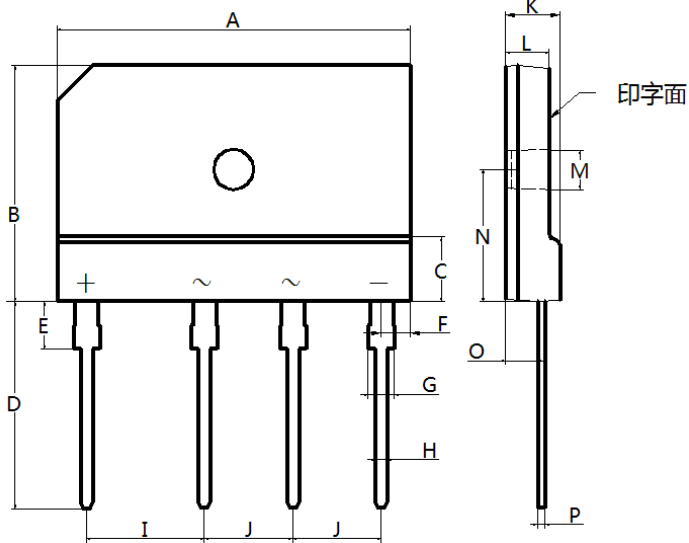
D35SB60 FR: 标识代码

D-SB-A: 封装结构, FR: 快恢复芯片

35: 35A, 60: 600V

NAA001: 产品批次码

■ 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	5.00	6.00	0.197	0.236
D	17.00	18.00	0.669	0.709
E	3.50	4.50	0.138	0.177
F	2.30	2.70	0.091	0.106
G	2.00	2.40	0.079	0.094
H	0.90	1.10	0.035	0.043
I	9.80	10.20	0.386	0.402
J	7.30	7.70	0.287	0.303
K	4.40	4.80	0.173	0.189
L	3.40	4.00	0.134	0.157
M	3.10	3.70	0.122	0.146
N	10.90	11.50	0.429	0.453
O	2.50	2.90	0.098	0.114
P	0.55	0.75	0.022	0.030

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