

**Features 特点**

PNPN Silicon Controllable rectifier 硅可控整流器

Sensitive Gate Trigger 灵敏的门极触发

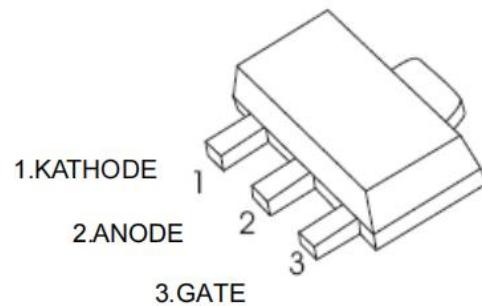
Glass passivated Process 玻璃钝化工艺

**Applications 应用**

General Purpose Switching 通用开关

Solid State Relay 固态继电器

Phase Control 相位控制



MARKING:100-8

**Absolute Maximum Ratings 最大额定值**

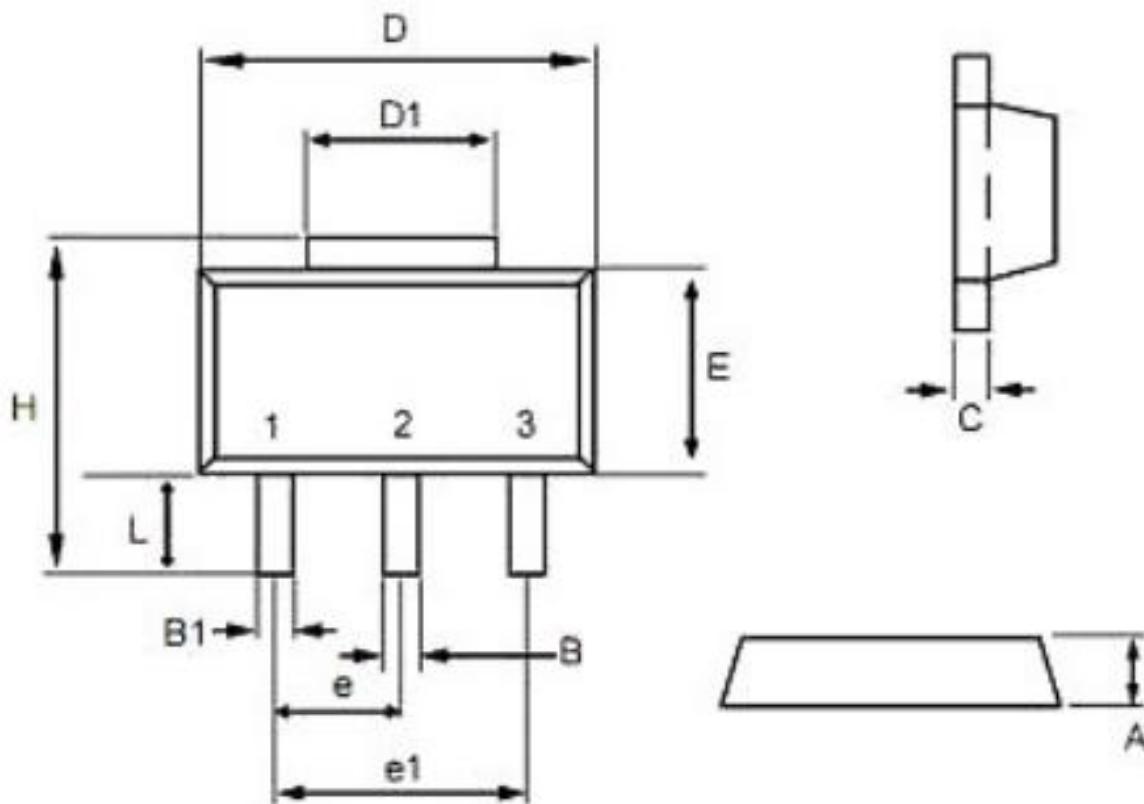
Characteristic 特性参数	Symbol 符号	Value 额定值	Unit 单位
Peak Repetitive Off-State Voltage (T <sub>J</sub> =-40°C to 110°C, Sine Wave, 50 to 60 Hz, Gate Open) 峰值可重复断态耐压	V <sub>DRM</sub> , V <sub>RRM</sub>	600	V
On-State RMS Current 通态均方根电流	I <sub>T(RMS)</sub>	0.8	A
On-State Average Current 通态平均电流	I <sub>T(AV)</sub>	0.5	A
Peak Non-Repetitive Surge Current @25°C 峰值不可重复浪涌电流	I <sub>TSM</sub>	9	A
Circuit Fusing Considerations(t=10ms) 电路保险指数	I <sup>2</sup> t	0.35	A <sup>2</sup> s
Peak Gate Current-Forward (Pulse Width ≤ 1 μs) 正向门极峰值电流	I <sub>GM</sub>	1	A
Peak Gate Voltage-Reverse (Pulse Width ≤ 1 μs) 反向门极峰值电压	V <sub>GRM</sub>	5	V
Forward Peak Gate Power (Pulse Width ≤ 1 μs) 正向门极峰值功率	P <sub>GM</sub>	0.1	W
Forward Average Gate Power (t=8.3ms) 正向门极平均功率	P <sub>G(AV)</sub>	0.1	W
Operating Junction/Storage Temperature 结温和储存温度	T <sub>stg</sub>	-40~125	°C

## Electrical Characteristics 电特性

(T<sub>A</sub>=25°C unless otherwise noted 如无特殊说明，温度为 25°C)

Characteristic Parameters 特性参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位	Condition 条件
Peak Forward Blocking Current 峰值正向漏电流	I <sub>DRM</sub>	T <sub>c</sub> =25°C T <sub>c</sub> =110°C	5 100	μA	V <sub>D</sub> =V <sub>DRM</sub>
Peak Reverse Blocking Current 峰值反向漏电流	I <sub>RRM</sub>	T <sub>c</sub> =25°C T <sub>c</sub> =110°C	5 100	μA	V <sub>R</sub> =V <sub>RRM</sub>
Peak Forward On-State Voltage 峰值正向通态电压	V <sub>TM</sub>		1.6	V	I <sub>TM</sub> =1A
Gate Trigger Current 触发电流	I <sub>GT</sub>	5	200	μA	V <sub>AK</sub> =7V
Gate Trigger Voltage 触发电压	V <sub>GT</sub>		0.8	V	I <sub>TM</sub> =0.8A
Holding Current 维持电流	I <sub>H</sub>		3	mA	I <sub>T</sub> =50mA
Latch Current 擎住电流	I <sub>L</sub>		5	mA	I <sub>G</sub> =1.2I <sub>GT</sub>
Off-state Voltage Change 断态电压临界上升率	dv/dt	10		V/μS	V <sub>D</sub> =2/3V <sub>DRM</sub>
Gate Non Trigger Voltage 门极不触发电压	V <sub>GD</sub>	0.1		V	V <sub>D</sub> =V <sub>DRM</sub>

Dimension 外形封裝尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.40	1.60	0.055	0.063
B	0.40	0.56	0.016	0.022
B1	0.35	0.48	0.014	0.019
C	0.35	0.44	0.014	0.017
D	4.40	4.60	0.173	0.181
D1	1.35	1.83	0.053	0.072
e	1.45	1.55	0.057	0.061
e1	2.95	3.05	0.116	0.120
E	2.29	2.60	0.090	0.102
H	3.75	4.25	0.148	0.167
L	0.80	1.20	0.031	0.047