

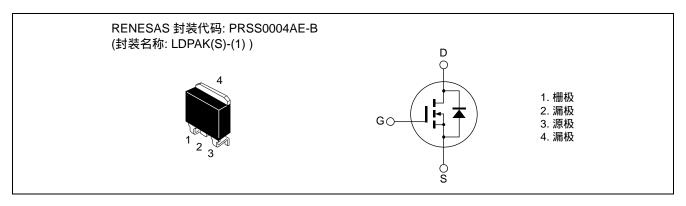
RJK6025DPE

600V - 0.8A - 场效应晶体管 快速电源开关 R07DS0813CJ0200 修订版本 2.00 Oct 01, 2012

特点

- 低漏极/源极通态电阻 $R_{DS(on)}=13~\Omega~ 典型值~(I_D=0.4~A,\,V_{GS}=10~V,\,Ta=25^{\circ}C)$
- 低漏泄电流
- 快速开关时间

封装形式



绝对最大额定值

 $(Ta = 25^{\circ}C)$

| 参数 | 符号 | 额定值 | 单位 |
|--------------|----------------------------|-------------|------|
| 漏极/源极电压 | V _{DSS} | 600 | V |
| 栅极/源极电压 | V _{GSS} | ±30 | V |
| 漏极电流 | I _D | 0.8 | Α |
| 脉冲漏极电流 | I _{D (pulse)} 注1 | 1.2 | Α |
| 体二极管反向漏极电流 | I _{DR} | 0.8 | Α |
| 体二极管反向脉冲漏极电流 | I _{DR (pulse)} 注1 | 1.2 | Α |
| 沟道最大容许损耗 | Pch ^{注2} | 25 | W |
| 沟道-外壳间热阻 | θch-c | 5 | °C/W |
| 沟道温度 | Tch | 150 | °C |
| 储存温度 | Tstg | -55 to +150 | °C |

- 注: 1. 在 PW ≤ 10 µs, 工作周期 ≤ 1% 的容许值
 - 2. 在 Tc = 25°C 的容许值

电特性

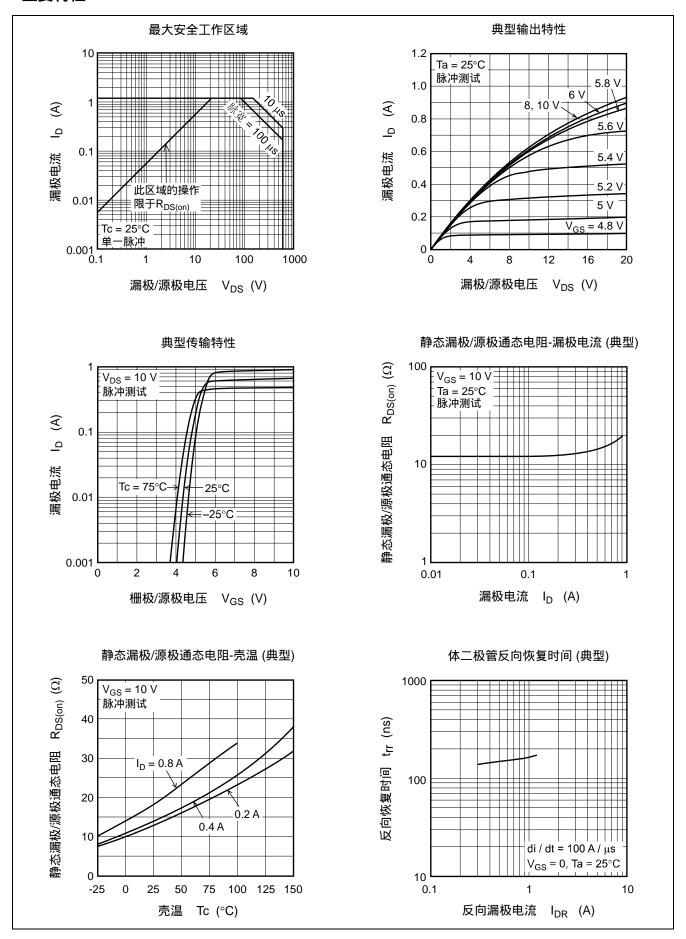
 $(Ta = 25^{\circ}C)$

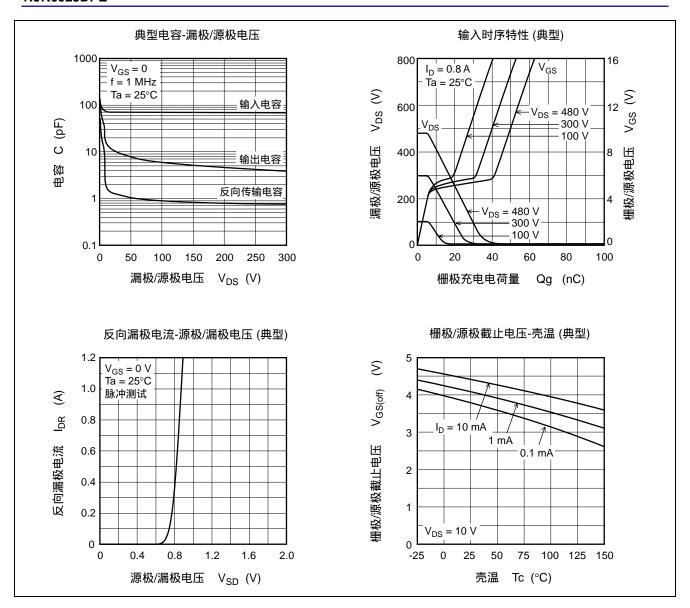
| 参数 | 符号 | 最小值 | 典型值 | 最大值 | 单位 | 测定条件 |
|-------------|---------------------|-----|------|------|----|--|
| 漏极/源极破坏电压 | $V_{(BR)DSS}$ | 600 | | | V | $I_D = 10 \text{ mA}, V_{GS} = 0$ |
| 漏极截止电流 | I _{DSS} | | | 1 | μΑ | $V_{DS} = 600 \text{ V}, V_{GS} = 0$ |
| 栅极截止电流 | I _{GSS} | | | ±0.1 | μΑ | $V_{GS} = \pm 30 \text{ V}, V_{DS} = 0$ |
| 栅极/源极截止电压 | $V_{GS(off)}$ | 3 | | 5 | V | $V_{DS} = 10 \text{ V}, I_{D} = 1 \text{ mA}$ |
| 静态漏极/源极通态电阻 | R _{DS(on)} | | 13.0 | 17.5 | Ω | $I_D = 0.4 \text{ A}, V_{GS} = 10 \text{ V}^{\pm 3}$ |
| 输入电容 | Ciss | | 71.5 | | pF | V _{DS} = 25 V |
| 输出电容 | Coss | | 10.5 | | рF | $V_{GS} = 0$ |
| 反向传输电容 | Crss | | 1.5 | | pF | f = 1 MHz |
| 接通延迟时间 | t _{d(on)} | | 31 | | ns | $I_D = 0.4 \text{ A}$ |
| 上升时间 | t _r | _ | 15 | _ | ns | V _{GS} = 10 V |
| 关断延迟时间 | t _{d(off)} | _ | 44 | _ | ns | $R_L = 750 \Omega$ |
| 下降时间 | t _f | _ | 44 | _ | ns | $Rg = 10 \Omega$ |
| 栅极充电电荷量 | Qg | _ | 5.0 | _ | nC | V _{DD} = 480 V |
| 栅极/源极充电电荷量 | Qgs | _ | 0.7 | _ | nC | V _{GS} = 10 V |
| 栅极/漏极充电电荷量 | Qgd | _ | 3.3 | _ | nC | $I_D = 0.8 \text{ A}$ |
| 体二极管正向电压 | V_{DF} | _ | 0.86 | 1.45 | V | $I_F = 0.8 \text{ A}, V_{GS} = 0^{\frac{13}{3}}$ |
| 体二极管反向恢复时间 | t _{rr} | _ | 157 | _ | ns | $I_F = 0.8 \text{ A}, V_{GS} = 0$ |
| | | | | | | $di_F/dt = 100 A/\mu s$ |

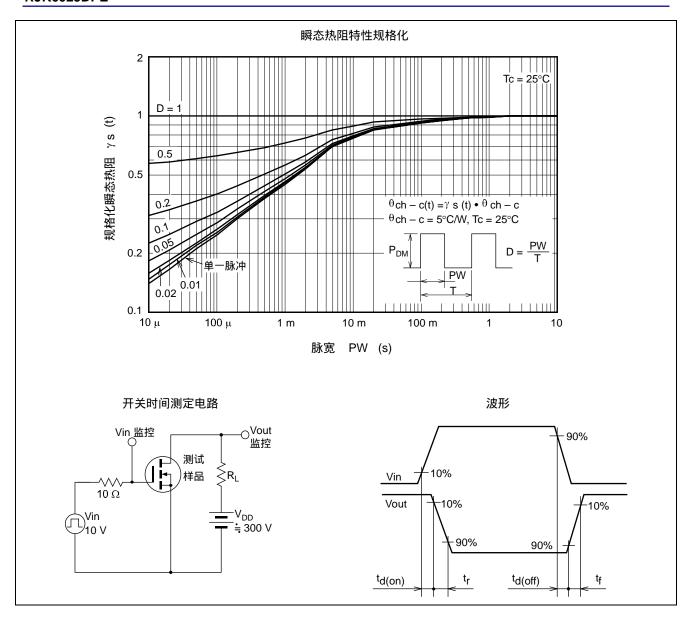
注: 3. 脉冲测试

^{4.} 此器件对静电敏感,请谨慎处理此产品。

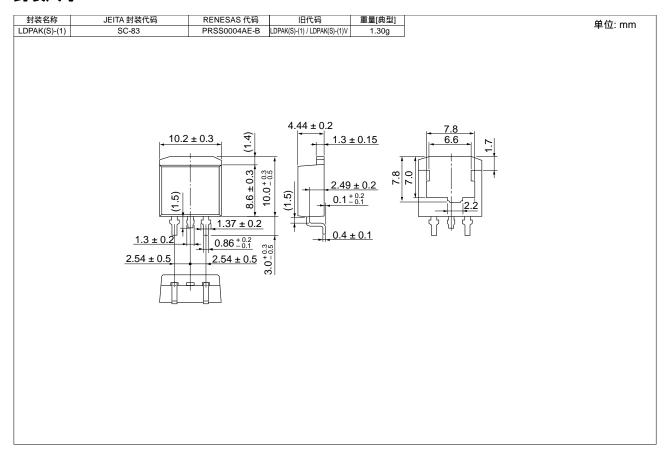
主要特性







封装尺寸



订购信息

| 订购型号 | 数量 | 运输包装 |
|------------------|--------|------|
| RJK6025DPE-00#J3 | 1000 枚 | 带卷包装 |

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