

RJK6032DPD

600V - 3A - 场效应晶体管 快速电源开关 R07DS0837CJ0200 修订版本 2.00 Nov 12, 2012

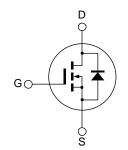
特点

- 低驱动电流
- 高密度安装

封装形式

RENESAS 封装代码: PRSS0004ZG-A (封装名称: MP-3A)





- 1. 栅极
- 2. 漏极
- 3. 源极
- 4. 漏极

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	3	А
脉冲漏极电流	I _{D (pulse)} 注1	6	А
体二极管反向漏极电流	I _{DR}	3	А
体二极管反向脉冲漏极电流	I _{DR (pulse)} 注1	6	А
雪崩电流	I _{AP} 注2	3	А
雪崩能量	E _{AR} 注2	0.49	mJ
沟道最大容许损耗	Pch ^{注3}	40.3	W
沟道-外壳间热阻	θch-c	3.1	°C/W
沟道温度	Tch	150	°C
储存温度	Tstg	-55 to +150	°C

- 注: 1. 脉宽限于工作区域
 - 2. STch = 25° C, Tch $\leq 150^{\circ}$ C
 - 3. 在 Tc = 25°C 的容许值

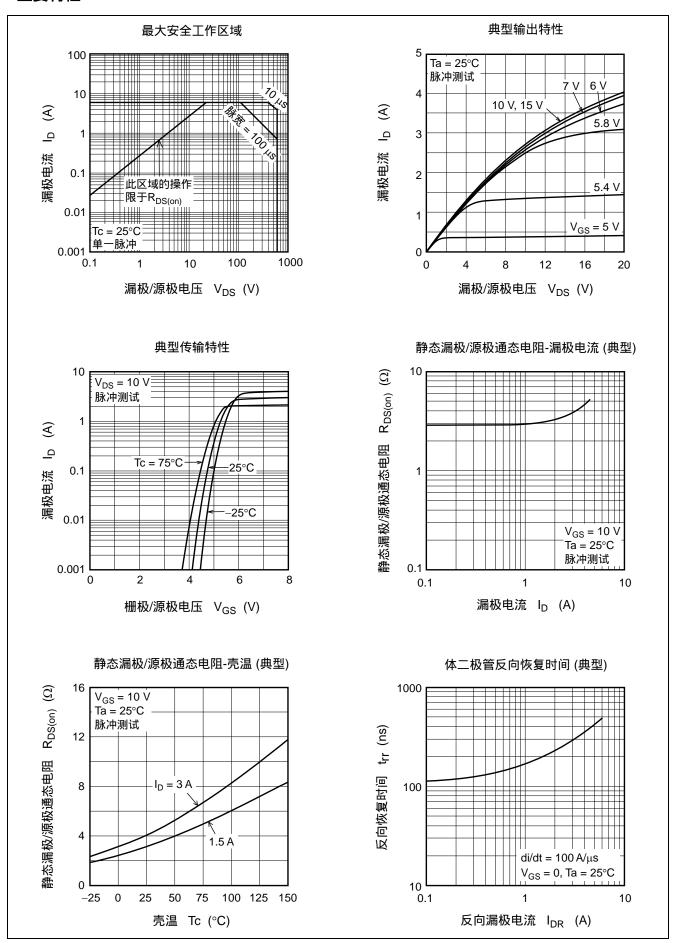
电特性

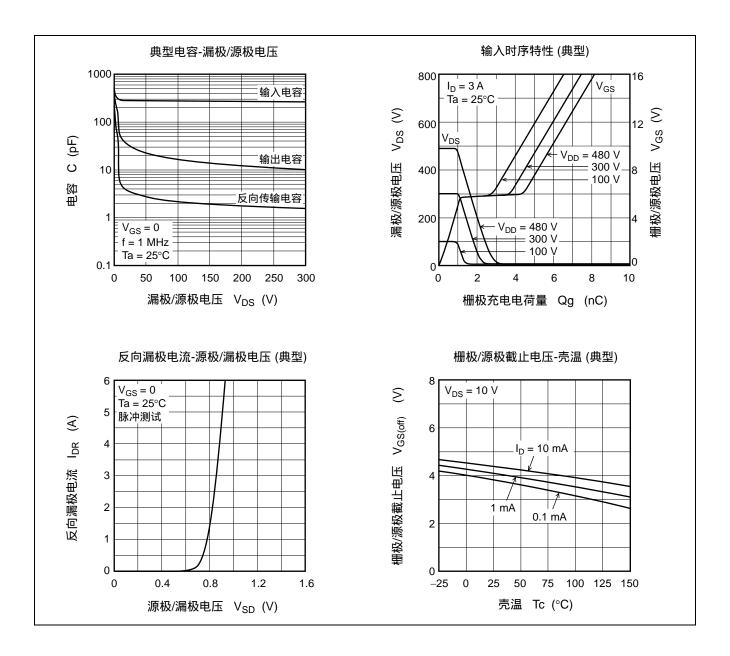
 $(Ta = 25^{\circ}C)$

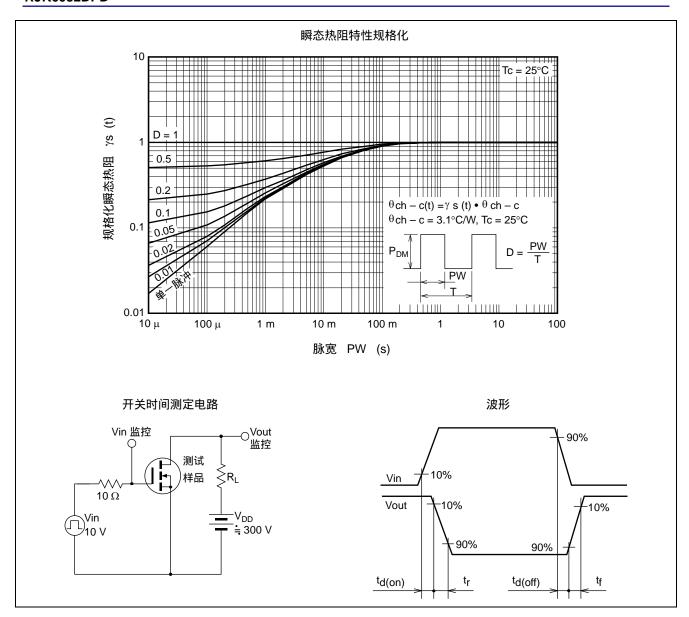
参数	符号	最小值	典型值	最大值	单位	测定条件
漏极/源极破坏电压	$V_{(BR)DSS}$	600	_		V	$I_D = 10 \text{ mA}, V_{GS} = 0$
漏极截止电流	I _{DSS}		_	1	μΑ	$V_{DS} = 600 \text{ V}, V_{GS} = 0$
栅极截止电流	I _{GSS}		_	±0.1	μΑ	$V_{GS} = \pm 30 \text{ V}, V_{DS} = 0$
栅极/源极截止电压	$V_{GS(off)}$	3.5	_	4.5	V	$V_{DS} = 10 \text{ V}, I_{D} = 1 \text{ mA}$
静态漏极/源极通态电阻	R _{DS(on)}		3.3	4.3	Ω	$I_D = 1.5 \text{ A}, V_{GS} = 10 \text{ V}^{\pm 4}$
输入电容	Ciss		285		pF	V _{DS} = 25 V
输出电容	Coss		31		рF	$V_{GS} = 0$
反向传输电容	Crss		3.5		pF	f = 1 MHz
接通延迟时间	t _{d(on)}		13		ns	I _D = 1.5 A
上升时间	t _r	_	13	_	ns	V _{GS} = 10 V
关断延迟时间	t _{d(off)}	_	22	_	ns	$R_L = 200 \Omega$
下降时间	t _f	_	22	_	ns	$Rg = 10 \Omega$
栅极充电电荷量	Qg	_	9.0	_	nC	V _{DD} = 480 V
栅极/源极充电电荷量	Qgs	_	1.7	_	nC	V _{GS} = 10 V
栅极/漏极充电电荷量	Qgd	_	4.9	_	nC	I _D = 3 A
体二极管正向电压	V_{DF}	_	0.9	1.5	V	$I_F = 3 \text{ A}, V_{GS} = 0^{\frac{12}{4}}$
体二极管反向恢复时间	t _{rr}	_	300	_	ns	$I_F = 3 \text{ A}, V_{GS} = 0$
						$di_F/dt = 100 A/\mu s$

注: 4. 脉冲测试

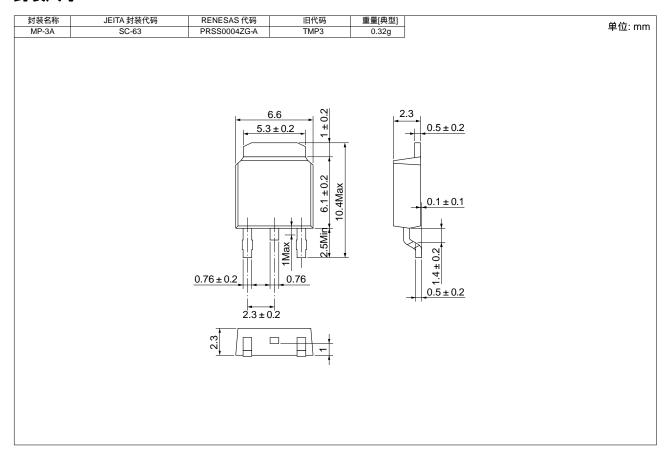
主要特性







封装尺寸



订购信息

订购型号	数量	运输包装
RJK6032DPD-00#J2	3000 枚	带卷包装

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