

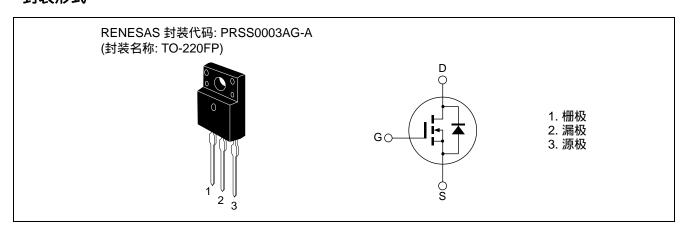
# RJK5026DPP-E0

500V - 6A - 场效应晶体管 快速电源开关 R07DS0608CJ0100 修订版本 1.00 Nov 12, 2012

### 特点

- 低漏极/源极通态电阻
   R<sub>DS(on)</sub> = 1.35 Ω 典型值 (I<sub>D</sub> = 3 A, V<sub>GS</sub> = 10 V, Ta = 25°C)
- 低漏泄电流
- 内置快速恢复二极管

# 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	$V_{DSS}$	500	V
栅极/源极电压	$V_{GSS}$	±30	V
漏极电流	I <sub>D</sub> <sup>注 4</sup>	6	Α
脉冲漏极电流	I <sub>D (pulse)</sub> 注1	18	Α
体二极管反向漏极电流	I <sub>DR</sub>	6	Α
体二极管反向脉冲漏极电流	I <sub>DR (pulse)</sub> 注1	18	Α
雪崩电流	I <sub>AP</sub> 注3	4	Α
雪崩能量	E <sub>AR</sub> 注3	0.88	mJ
沟道最大容许损耗	Pch <sup>注2</sup>	28.5	W
沟道-外壳间热阻	θch-c	4.38	°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
  - 3. STch =  $25^{\circ}$ C, Tch  $\leq 150^{\circ}$ C
  - 4. 限于最大安全工作区域

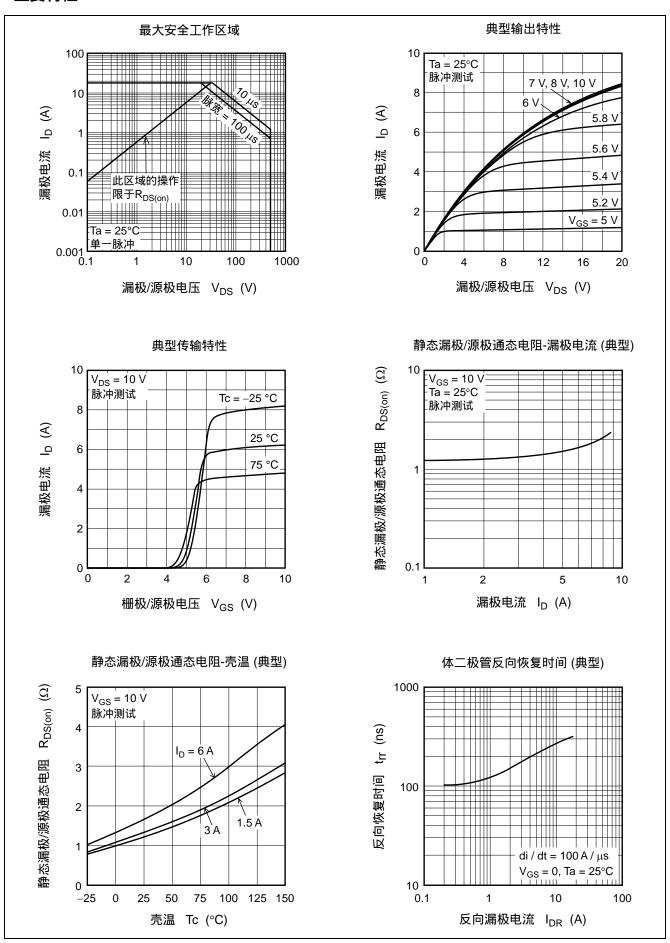
# 电特性

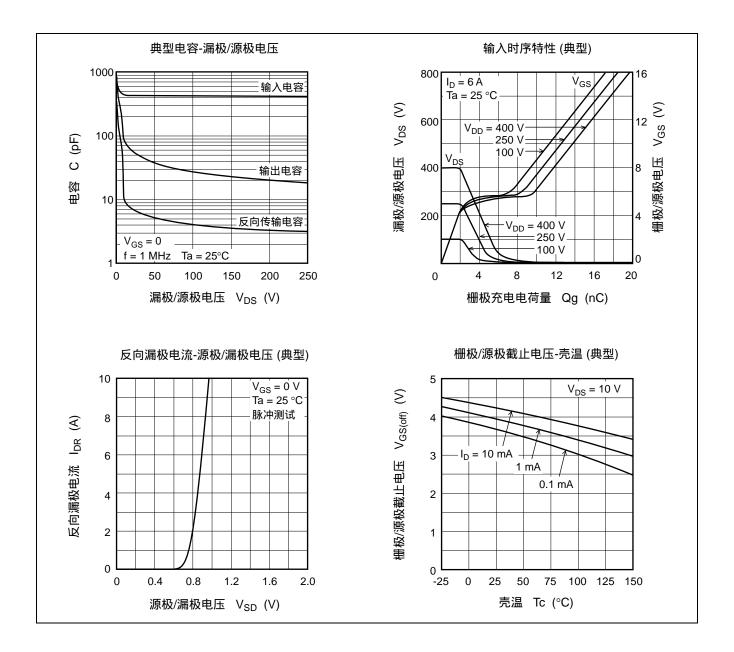
 $(Ta = 25^{\circ}C)$ 

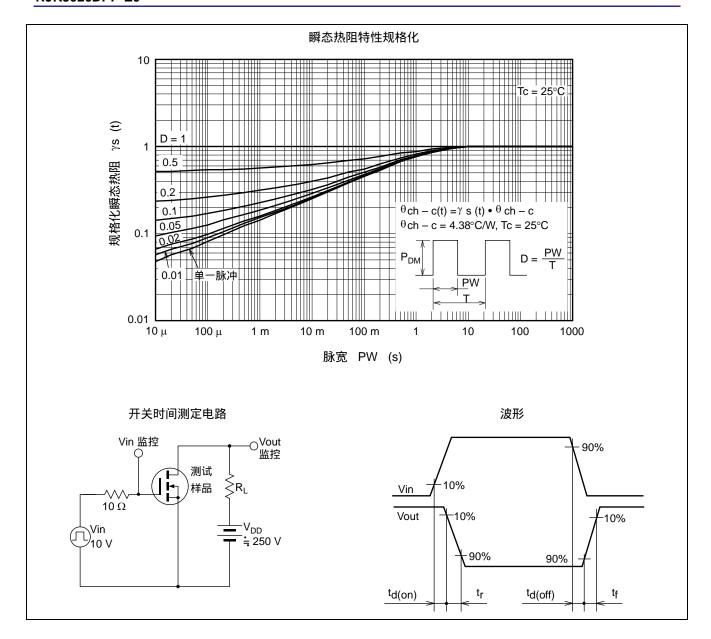
参数	符号	最小值	典型值	最大值	单位	测定条件
漏极/源极破坏电压	$V_{(BR)DSS}$	500	_	_	V	$I_D = 10 \text{ mA}, V_{GS} = 0$
漏极截止电流	I <sub>DSS</sub>	_		1	μΑ	$V_{DS} = 500 \text{ V}, V_{GS} = 0$
栅极截止电流	I <sub>GSS</sub>	_	_	±0.1	μΑ	$V_{GS} = \pm 30 \text{ V}, V_{DS} = 0$
栅极/源极截止电压	$V_{GS(off)}$	3.0	_	4.5	V	$V_{DS} = 10 \text{ V}, I_{D} = 1 \text{ mA}$
静态漏极/源极通态电阻	R <sub>DS(on)</sub>	_	1.35	1.70	Ω	$I_D = 3 \text{ A}, V_{GS} = 10 \text{ V}^{\pm 5}$
输入电容	Ciss	_	440	_	pF	V <sub>DS</sub> = 25 V
输出电容	Coss	_	52	_	рF	$V_{GS} = 0$
反向传输电容	Crss	_	7	_	pF	f = 1 MHz
接通延迟时间	t <sub>d(on)</sub>	_	26	_	ns	$I_D = 3 A$
上升时间	t <sub>r</sub>	_	19	_	ns	$V_{GS} = 10 \text{ V}$
关断延迟时间	t <sub>d(off)</sub>	_	50	_	ns	$R_L = 83.3 \Omega$
下降时间	t <sub>f</sub>	_	14	_	ns	$Rg = 10 \Omega$
栅极充电电荷量	Qg	_	14	_	nC	$V_{DD} = 400 \text{ V}$
栅极/源极充电电荷量	Qgs	_	2.5	_	nC	$V_{GS} = 10 \text{ V}$
栅极/漏极充电电荷量	Qgd		6.9		nC	$I_D = 6 A$
体二极管正向电压	$V_{DF}$		0.95	1.50	V	I <sub>F</sub> = 6 A, V <sub>GS</sub> = 0 <sup>注 5</sup>
体二极管反向恢复时间	t <sub>rr</sub>	_	230	_	ns	$I_F = 6 \text{ A}, V_{GS} = 0$
						$di_F/dt = 100 A/\mu s$

注: 5. 脉冲测试

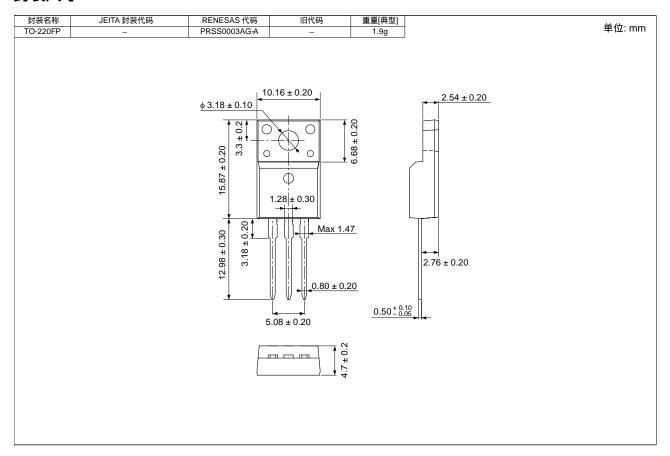
## 主要特性







# 封装尺寸



# 订购信息

订购型 <del>号</del>	数量	运输包装
RJK5026DPP-E0#T2	1000 枚	纸盒包装(管状容器)

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