

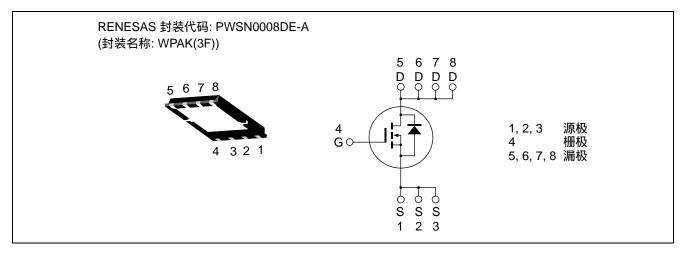
RJK2575DPA

250V - 17A - 场效应晶体管 快速电源开关 R07DS0857CJ0100 修订版本 1.00 Oct 23, 2012

特点

- 低漏极/源极通态电阻
 R_{DS(on)} = 0.083 Ω 典型值 (I_D = 8.5 A, V_{GS} = 10 V, Ta = 25 °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	額定值	单位
漏极/源极电压	V _{DSS}	250	V
栅极/源极电压	V _{GSS}	±30	V
漏极电流	I _D	17	А
脉冲漏极电流	I _{D (pulse)} 注1	34	А
体二极管反向漏极电流	I _{DR}	17	А
体二极管反向脉冲漏极电流	I _{DR (pulse)} 注1	34	А
雪崩电流	I _{AP} 注3	7	А
雪崩能量	E _{AR} 注3	3.0	mJ
沟道最大容许损耗	Pch ^{注2}	30	W
沟道-外壳间热阻	θch-c	4.17	°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℃ 的容许值

3. STch = 25° C, Tch $\leq 150^{\circ}$ C



电特性

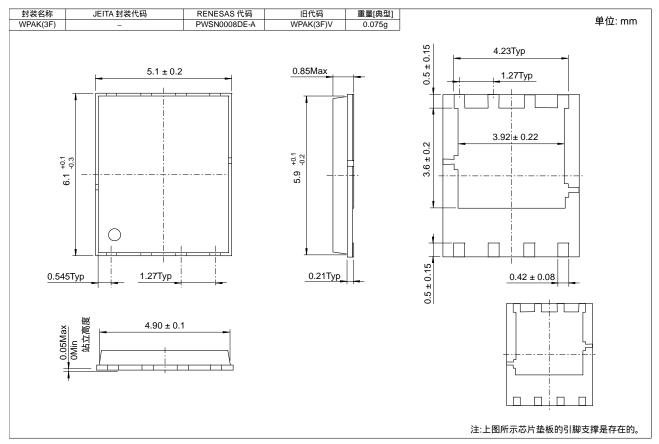
初始

						$(Ta = 25^{\circ}C)$
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}	250			V	$I_D = 10 \text{ mA}, V_{GS} = 0$
漏极截止电流	I _{DSS}	—		1	μΑ	$V_{DS} = 250 \text{ V}, V_{GS} = 0$
栅极截止电流	I _{GSS}	_		±1	μA	$V_{GS}=\pm 30~V,~V_{DS}=0$
栅极/源极截止电压	V _{GS(off)}	2.5		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)}	_	0.083	0.104	Ω	$I_D = 8.5 \text{ A}, V_{GS} = 10 \text{ V}^{\pm 4}$
输入电容	Ciss	_	2200		pF	V _{DS} = 25 V
输出电容	Coss	—	170	_	pF	$V_{GS} = 0$
反向传输电容	Crss	—	48	_	pF	f = 1 MHz
接通延迟时间	t _{d(on)}	—	34	_	ns	I _D = 8.5 A
上升时间	tr	_	25	_	ns	V _{GS} = 10 V
关断延迟时间	t _{d(off)}	—	61		ns	$R_L = 14.7 \Omega$
下降时间	t _f	—	24		ns	Rg = 10 Ω
栅极充电电荷量	Qg	—	35		nC	V _{DD} = 200 V
栅极/源极充电电荷量	Qgs	—	11.5	_	nC	V _{GS} = 10 V I _D = 17 A
栅极/漏极充电电荷量	Qgd	_	11		nC	
体二极管正向电压	V _{DF}	_	0.80	1.35	V	$I_F = 17 \text{ A}, V_{GS} = 0^{124}$
体二极管反向恢复时间	t _{rr}	_	120		ns	$I_F = 17 \text{ A}, V_{GS} = 0$
						di _F /dt = 100 A/µs

注: 4. 脉冲测试



封装尺寸



订购信息

订购型号	数量	运输包装
RJK2575DPA-00#J5A	3000枚	带卷包装



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