

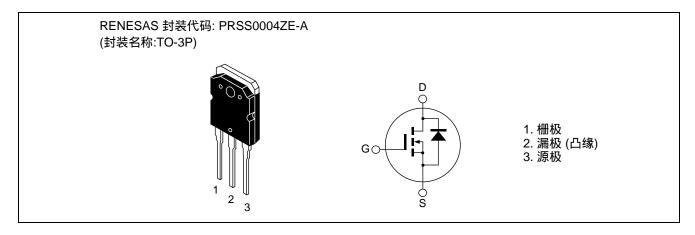
RJK4515DPK

450V - 27A - 场效应晶体管 快速电源开关 R07DS0472CJ0200 修订版本 2.00 Sep 25, 2012

特点

- 低漏极/源极通态电阻 $R_{DS(on)} = 0.171~\Omega$ 典型值 $(I_D = 13.5~A, V_{GS} = 10~V, Ta = 25 ^{\circ}C)$
- 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}	450	V
栅极/源极电压	V _{GSS} ±30		V
漏极电流	I _D	27	A
脉冲漏极电流	I _{D (pulse)} 注1	81	A
体二极管反向漏极电流	I _{DR}	27	A
体二极管反向脉冲漏极电流	I _{DR (pulse)} 注1	81	A
雪崩电流	I _{AP} 注3	8	А
雪崩能量	E _{AR} 注3	3.6	mJ
沟道最大容许损耗	Pch ^{注2}	150	W
沟道-外壳间热阻	θch-c	0.833	°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° C, Tch $\leq 150^{\circ}$ C

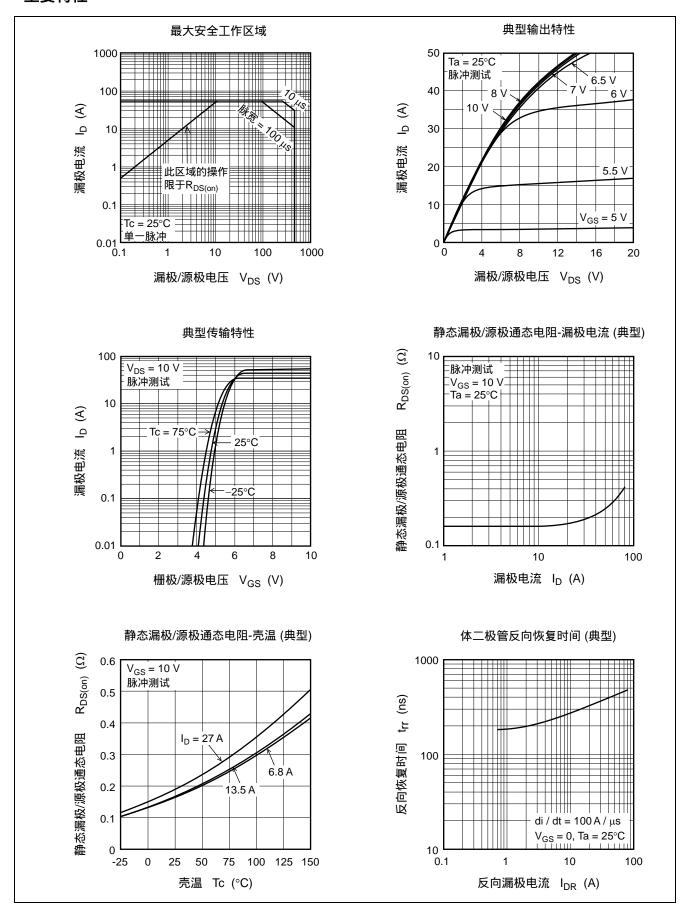
电特性

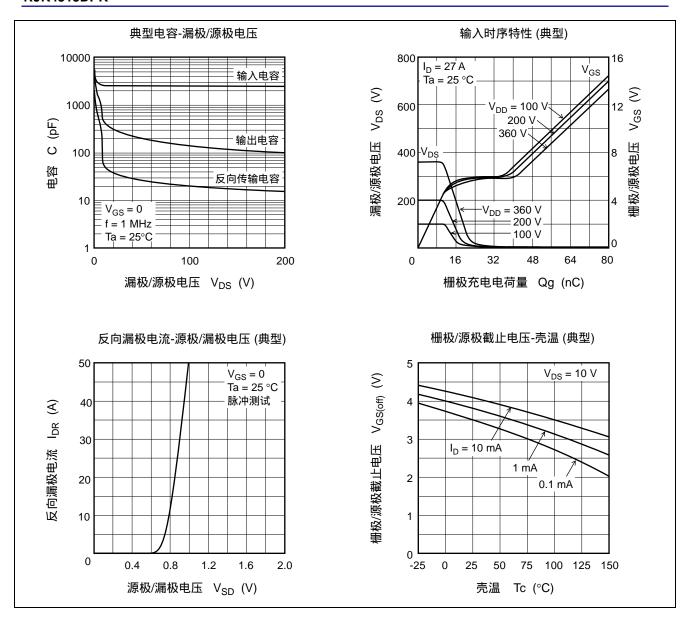
 $(Ta = 25^{\circ}C)$

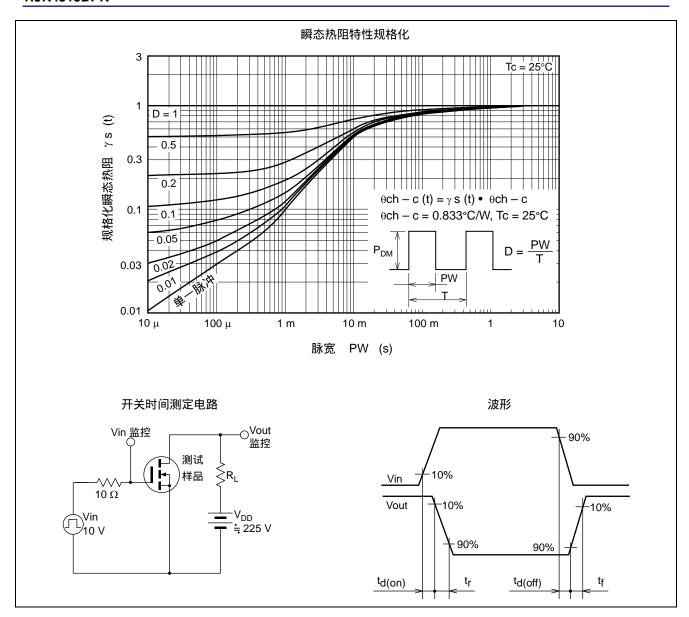
参数	符号	最小值	典型值	最大值	单位	测定条件
漏极/源极破坏电压	$V_{(BR)DSS}$	450		_	V	$I_D = 10 \text{ mA}, V_{GS} = 0$
漏极截止电流	I _{DSS}			1	μΑ	$V_{DS} = 450 \text{ V}, V_{GS} = 0$
栅极截止电流	I _{GSS}			±0.1	μΑ	$V_{GS} = \pm 30 \text{ V}, V_{DS} = 0$
栅极/源极截止电压	$V_{GS(off)}$	3.0		4.5	V	$V_{DS} = 10 \text{ V}, I_{D} = 1 \text{ mA}$
静态漏极/源极通态电阻	R _{DS(on)}		0.171	0.200	Ω	$I_D = 13.5 \text{ A}, V_{GS} = 10 \text{ V}^{\pm 4}$
输入电容	Ciss		2600	_	pF	V _{DS} = 25 V
输出电容	Coss	_	283	_	pF	$V_{GS} = 0$
反向传输电容	Crss	_	34	_	pF	f = 1 MHz
接通延迟时间	t _{d(on)}	_	40	_	ns	I _D = 13.5 A
上升时间	t _r	_	65	_	ns	V _{GS} = 10 V
关断延迟时间	t _{d(off)}	_	103	_	ns	$R_L = 16.7 \Omega$
下降时间	t _f	_	52	_	ns	$Rg = 10 \Omega$
栅极充电电荷量	Qg	_	61.8	_	nC	V _{DD} = 360 V
栅极/源极充电电荷量	Qgs	_	13.0	_	nC	V _{GS} = 10 V
栅极/漏极充电电荷量	Qgd	_	27.5	_	nC	I _D = 27 A
体二极管正向电压	V_{DF}	_	0.92	1.50	V	$I_F = 27 \text{ A}, V_{GS} = 0^{\frac{12}{4}}$
体二极管反向恢复时间	t _{rr}	_	360	_	ns	$I_F = 27 \text{ A}, V_{GS} = 0$
						$di_F/dt = 100 A/\mu s$

注: 4. 脉冲测试

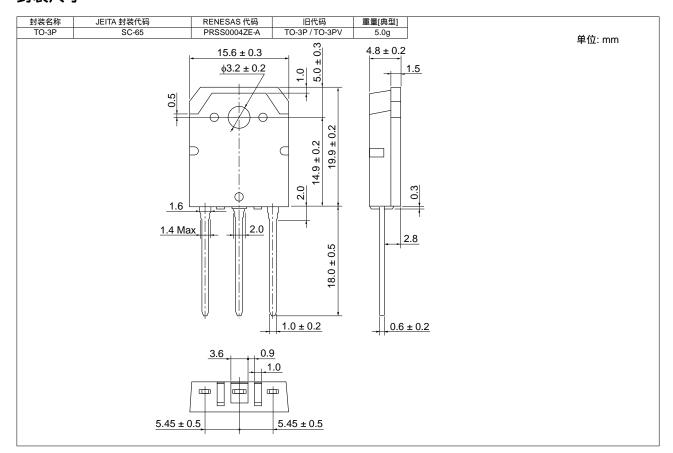
主要特性







封装尺寸



订购信息

订购型号	数量	运输包装
RJK4515DPK-00#T0	360 枚	纸盒包装(管状容器)

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