

RJH1CF7RDPQ-80

硅 N 沟道绝缘栅双极晶体管 快速电源开关 R07DS0357CJ0100 修订版本 1.00 Dec 05, 2011

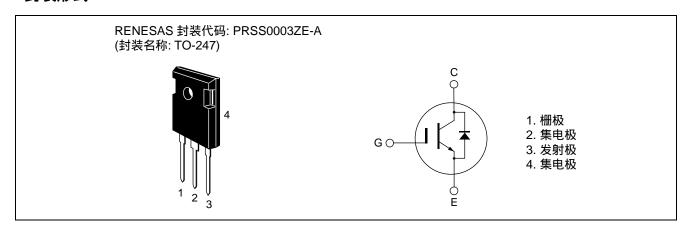
特点

- 电压谐振电路用途
- 逆导绝缘栅双极晶体管与单片体二极管
- 用于感应加热的高效率产品
- 低集电极/发射极饱和电压

V_{CE(sat)} = 1.85 V 典型值 (I_C = 35 A, V_{GE} = 15V, Ta = 25°C)

- 栅极/发射极额定电压 ±30 V
- 无铅电镀引脚

封装形式



绝对最大额定值

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

参数		符号	额定值	单位
集电极/发射极电压		V _{CES}	1200	V
栅极/发射极电压		V _{GES}	±30	V
集电极电流	Tc = 25°C	Ic	60	А
	Tc = 100°C	Ic	35	А
集电极脉冲电流		ic(peak) ^{注 1}	100	А
集电极/发射极二极管正向电流		i _{DF}	25	А
集电极最大允许功率损耗		P _C	250	W
结壳热阻		θј-с	0.5	°C/W
结温		Tj	150	°C
储存温度		Tstg	-55 to +150	°C

注: 1. 脉冲宽度限于安全工作区域。

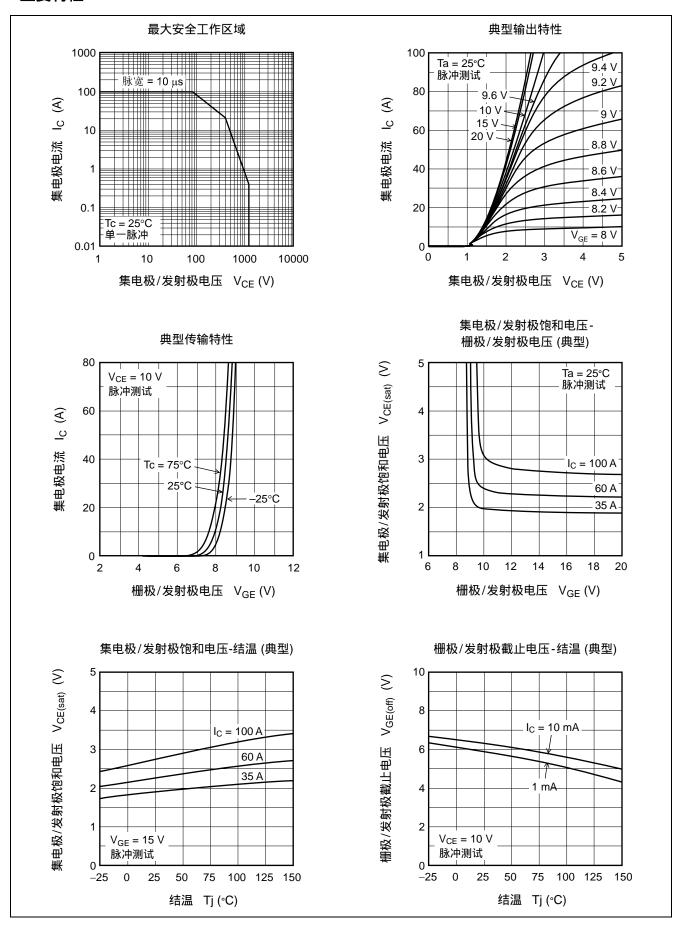
电特性

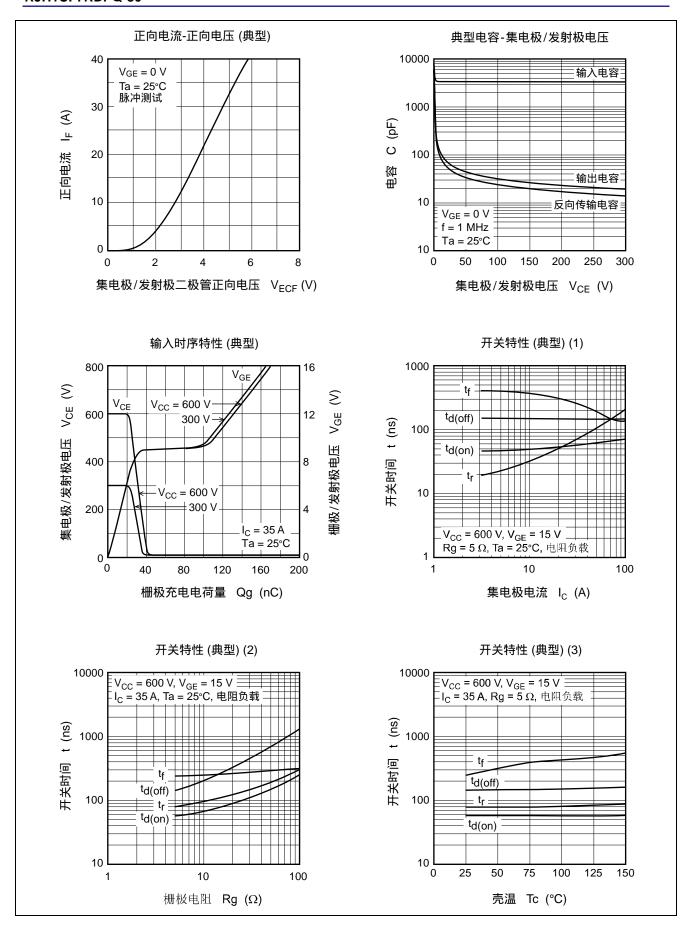
 $(Tj = 25^{\circ}C)$

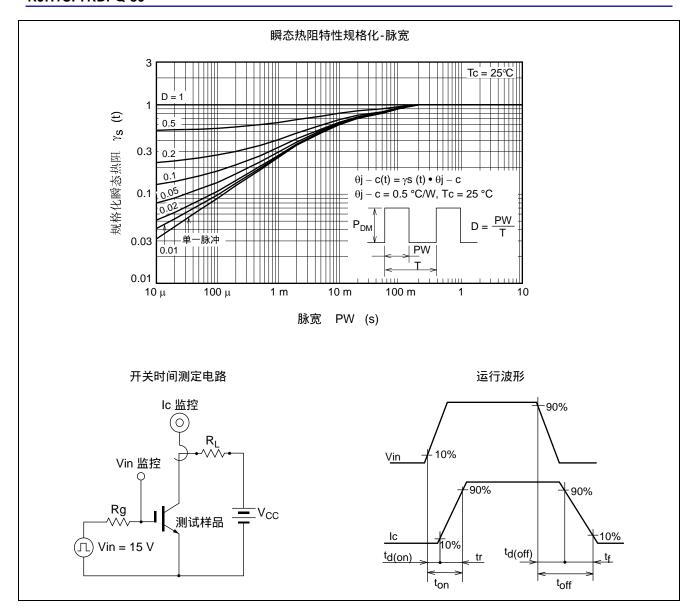
参数	符号	最小值	典型值	最大值	单位	测定条件	
集电极/发射极断路电流	I _{CES}	_		100	μΑ	V _{CE} = 1200 V, V _{GE} = 0	
栅极/发射极漏泄电流	I _{GES}	_		±1	μΑ	$V_{GE} = \pm 30 \text{ V}, V_{CE} = 0$	
栅极/发射极截止电压	$V_{\text{GE(off)}}$	3.5	5.0	7.0	V	$V_{CE} = 10V, I_{C} = 1 \text{ mA}$	
集电极/发射极饱和电压	V _{CE(sat)}	_	1.85	2.40	V	$I_C = 35 \text{ A}, V_{GE} = 15V^{\frac{12}{2}}$	
		_	2.15	_	V	$I_C = 60 \text{ A}, V_{GE} = 15V^{\frac{12}{2}}$	
输入电容	Cies	_	3270	_	pF	V _{CE} = 25 V	
输出电容	Coes	_	62	_	pF	$V_{GE} = 0 V$	
反向传输电容	Cres	_	50	_	pF	f = 1 MHz	
接通延迟时间	t _{d(on)}	_	60	_	ns	I _C = 35 A	
上升时间	t _r	_	80	_	ns	$V_{CE} = 600 \text{ V}, V_{GE} = 15 \text{ V}$ $Rg = 5 \Omega^{\pm 2}$	
关断延迟时间	t _{d(off)}	_	150	_	ns		
下降时间	t _f		250		ns	「电阻负载 	
集电极/发射极二极管正向电压	V _F	_	3.0	3.9	V	I _F = 10 A ^{注 2}	

注: 2. 脉冲测试

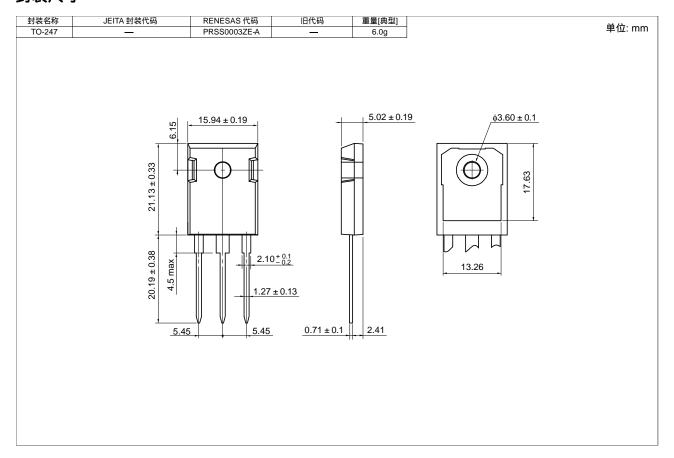
主要特性







封装尺寸



订购信息

订购型号	数量	运输包装
RJH1CF7RDPQ-80#T2	450 枚	纸盒包装 (管状容器)

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