

BRS3N25 (CS3N25)

N-CHANNEL MOSFET/N 沟道 MOS 场效应管

用途：用于高功率 DC/DC 转换和功率开关。

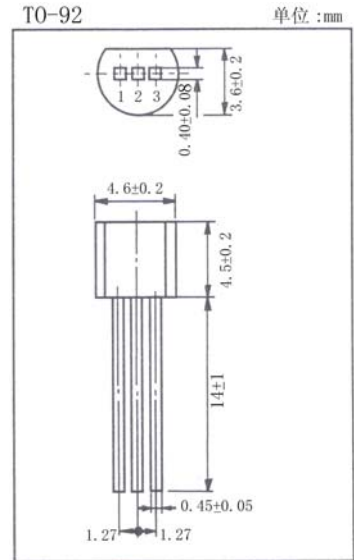
Purpose: These devices are well suited for high efficiency switching DC/DC converters and switch mode power supplies.

特点：低栅电荷, 低反馈电容, 开关速度快。

Features: Low gate charge, low crss, fast switching.

极限参数/Absolute maximum ratings(Ta=25°C)

参数符号 Symbol	数值 Rating	单位 Unit
V _{DSS}	250	V
I _D (Tc=25°C)	3.0	A
I _D (Tc=100°C)	1.9	A
I _{DM}	8.5	A
V _{GSS}	±30	V
E _{AS}	45	mJ
E _{AR}	2.5	mJ
I _{AR}	2.2	A
P _D	1.0	W
T _J , T _{STG}	-55 to 150	°C



引脚: 1. G 2. D 3. S

电性能参数/Electrical Characteristics(Ta=25°C)

参数符号 Symbol	测试条件 Test Conditions		最小值 Min	典型值 Typ	最大值 Max	单位 Unit	
BV _{DSS}	V _{GS} =0V	I _D =250 μ A	250			V	
I _{DSS}	V _{DS} =250V	V _{GS} =0V			10	μ A	
	V _{DS} =200V	T _C =125°C			100	μ A	
I _{GSS}	V _{GS} =±30V	V _{DS} =0V			±0.1	μ A	
V _{GS(th)}	V _{DS} =V _{GS}	I _D =250 μ A	2.0		4.0	V	
R _{DS(on)}	V _{GS} =10V	I _D =1.1A		1.49	2.0	Ω	
g _{FS}	V _{DS} =40V	I _D =1.1A		2.4		S	
V _{SD}	V _{GS} =0V	I _S =2.2A			1.5	V	
C _{iss}	V _{DS} =25V	V _{GS} =0V	f=1.0MHz		210	275	pF
C _{oss}					35	45	pF
C _{rss}					7.5	10	pF
t _{d(on)}	V _{DD} =125V	I _D =2.8A	R _G =25 Ω		6.0	22	ns
t _r					30	70	ns
t _{d(off)}					25	60	ns
t _f					30	70	ns

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