

用途：用于高效 DC/DC 转换和功率开关

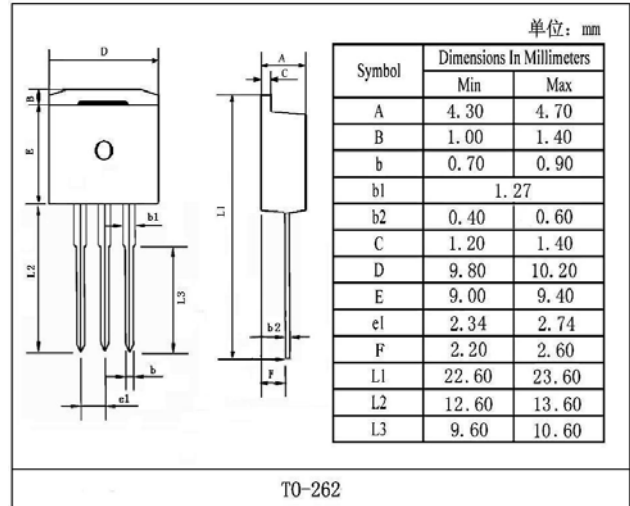
Purpose: These devices are well suited for high efficiency switch mode power supplies.

特点：低的门槛电压、反向传输电容小、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}	800	V
I _D (Tc=25°C)	7.0	A
I _D (Tc=100°C)	4.2	A
I _{DM}	26.4	A
V _{GS}	±30	V
E _{AS}	580	mJ
E _{AR}	16.7	mJ
I _{AR}	6.6	A
P _D (Tc=25°C)	56	W
T _J , T _{STG}	-55 to 150	°C



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 μA	800			V
I _{DSS}	V _{DS} =800V V _{GS} =0V			10	μA
	V _{DS} =640V T _C =125°C			100	μA
I _{GSS}	V _{GS} =±30V V _{DS} =0V			±0.1	μA
V _{GS(th)}	V _{DS} =V _{GS} I _D =250 μA	3.0		5.0	V
R _{DS(on)}	V _{GS} =10V I _D =3.3A		1.57	1.9	Ω
g _{FS}	V _{DS} =50V I _D =3.3A		5.5		S
V _{SD}	V _{GS} =0V I _S =7.0A			1.4	V
C _{iss}	V _{DS} =25V V _{GS} =0V f=1.0MHz		1290	1680	pF
C _{oss}			120	155	
C _{rss}			10	13	
t _{d(on)}	V _{DD} =400V I _D =6.6A R _G =25 Ω		35	80	ns
t _r			100	210	
t _{d(off)}			50	110	
t _f			60	130	

BRA7N80 (CS7N80A)

