

用途：用于高效 DC/DC 转换和功率开关

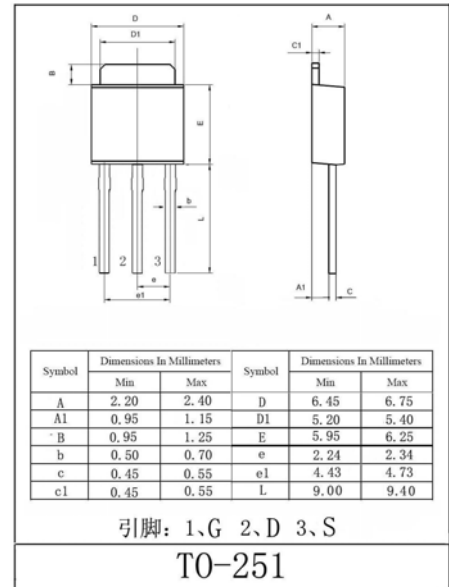
Purpose: These devices are well suited for high efficiency switch mode power supplies.

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 <sub>DSS</sub>	800	V
I <sub>D</sub> (Tc=25°C)	3.0	A
I <sub>D</sub> (Tc=100°C)	1.9	A
I <sub>DM</sub>	12	A
V <sub>GS</sub>	±30	V
E <sub>AS</sub>	120	mJ
E <sub>AR</sub>	12	mJ
I <sub>AR</sub>	1.5	A
P <sub>D</sub> (Tc=25°C)	75	W
T <sub>J</sub> , T <sub>STG</sub>	-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 <sub>DSS</sub>	V <sub>GS</sub> =0V I <sub>D</sub> =250 μA	800			V
I <sub>DSS</sub>	V <sub>DS</sub> =800V V <sub>GS</sub> =0V			25	μA
	V <sub>DS</sub> =640V V <sub>GS</sub> =0V			250	μA
I <sub>GSS</sub>	V <sub>GS</sub> =±30V V <sub>DS</sub> =0V			±0.1	μA
V <sub>GS(th)</sub>	V <sub>DS</sub> =V <sub>GS</sub> I <sub>D</sub> =250 μA	2.0		4.0	V
R <sub>DS(on)</sub>	V <sub>GS</sub> =10V I <sub>D</sub> =1.5A		4.0	4.8	Ω
g <sub>FS</sub>	V <sub>DS</sub> =15V I <sub>D</sub> =1.5A		5.5		S
V <sub>SD</sub>	V <sub>GS</sub> =0V I <sub>S</sub> =3.0A			1.5	V
C <sub>iss</sub>	V <sub>DS</sub> =25V V <sub>GS</sub> =0V f=1.0MHz		660		pF
C <sub>oss</sub>			50		
C <sub>rss</sub>			7		
t <sub>d(on)</sub>	V <sub>DD</sub> =400V I <sub>D</sub> =3.0A V <sub>GS</sub> =10V R <sub>G</sub> =12Ω		16		ns
t <sub>r</sub>			15		
t <sub>d(off)</sub>			40		
t <sub>f</sub>			20		

# BRI3N80 (CS3N80I)

