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.

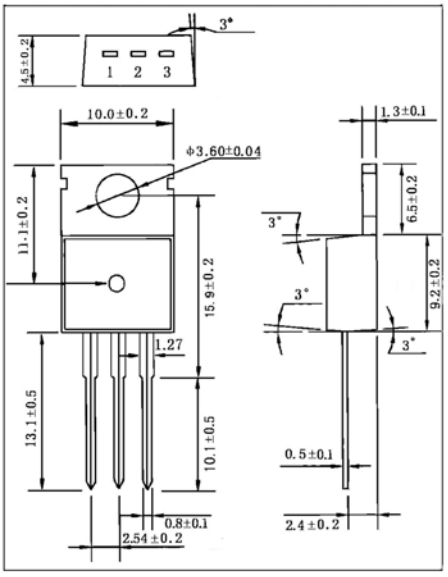
特点：低栅电荷,低反馈电容,开关速度快。

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

极限参数/Absolute maximum ratings(Ta=25℃)

参数符号 Symbol	数值 Rating	单位 Unit
V_{DSS}	600	V
I_D(Tc=25℃)	2.0	A
I_D(Tc=100℃)	1.3	A
I_{DM}	6.0	A
V_{GSS}	±30	V
E_{AS}	120	mJ
E_{AR}	5.4	mJ
I_{AR}	2.0	A
P_D(Tc=25℃)	54	W
T_J, T_{STG}	-55 to 150	℃

TO-220　　单位：mm

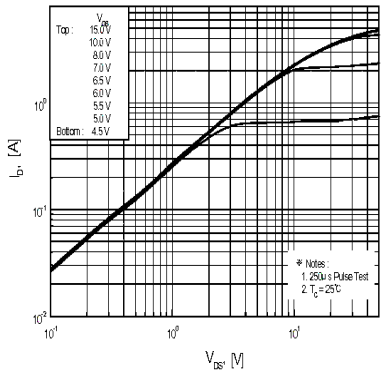


引脚：1 G　2 D　3 S

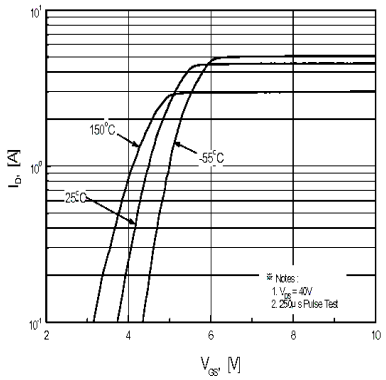
电性能参数/Electrical Characteristics(Ta=25℃)

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=250μA	600			V
I_{DSS}	V_{DS}=600V　V_{GS}=0V			1.0	μA
	V_{DS}=480V　T_C=125℃			100	μA
I_{GSS}	V_{GS}=±30V　V_{DS}=0V			±0.1	μA
$V_{GS(th)}$	V_{DS}=V_{GS}　I_D=250μA	2.0		4.0	V
$R_{DS(on)}$	V_{GS}=10V　I_D=1.0A		4.0	5.0	Ω
g_{FS}	V_{DS}=40V　I_D=1.0A		2.05		S
V_{SD}	V_{GS}=0V　I_S=2.0A			1.4	V
C_{iss}	V_{DS}=25V V_{GS}=0V f=1.0MHz		320	420	pF
C_{oss}			35	46	pF
C_{rss}			4.5	6.0	pF
$t_{d(on)}$	V_{DD}=300V I_D=2.0A R_G=25Ω		8.0	30	ns
t_r			23	60	ns
$t_{d(off)}$			25	60	ns
t_f			28	70	ns

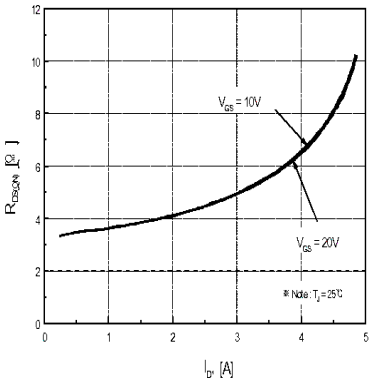
ID - VDS



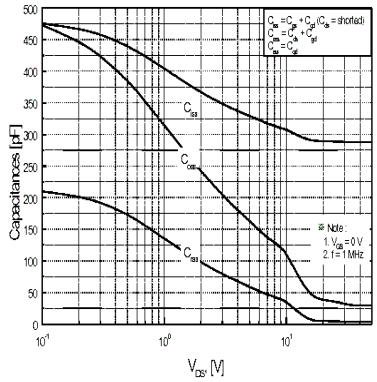
ID - VGS



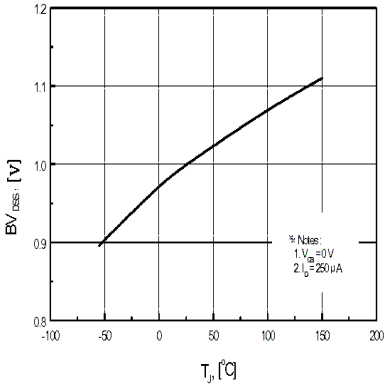
RDS(ON) - ID



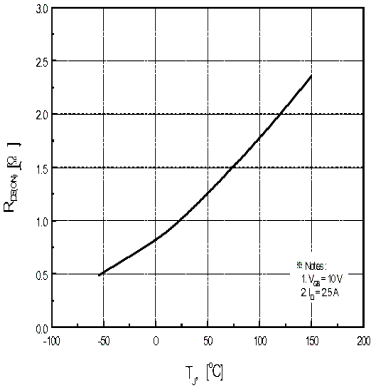
Ciss, Coss, Crss - VDS



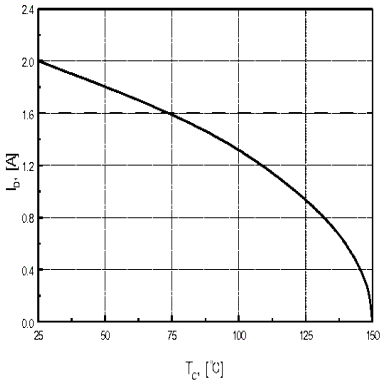
BVDSS - TJ



RDS(ON) - TJ



ID - TC



ID - VDS