

N-Channel

主要特性/Features

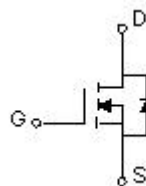
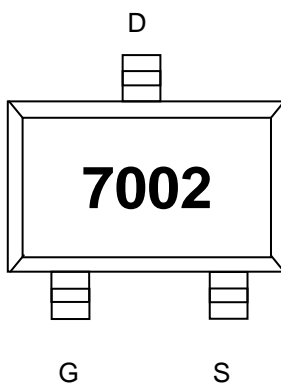
控制触发灵敏 Sensitive control trigger

维持电流低 Low maintenance current;

应用/Application

用于一般开关和相位电路 For general switches and phase circuits

印字/MARKING 等效电路/Equivalent Circuit



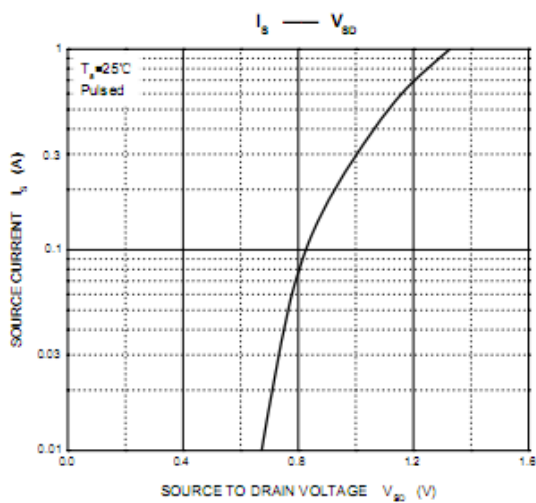
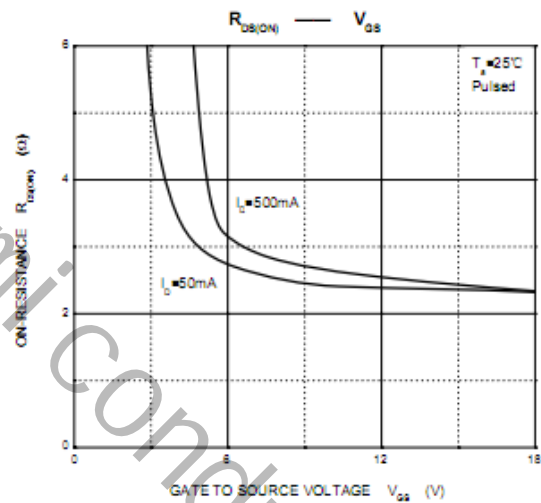
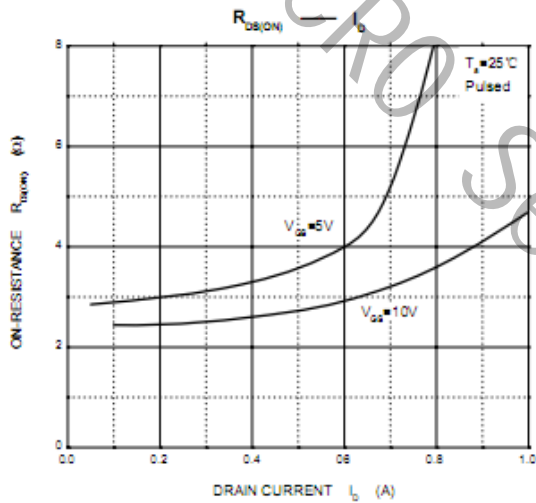
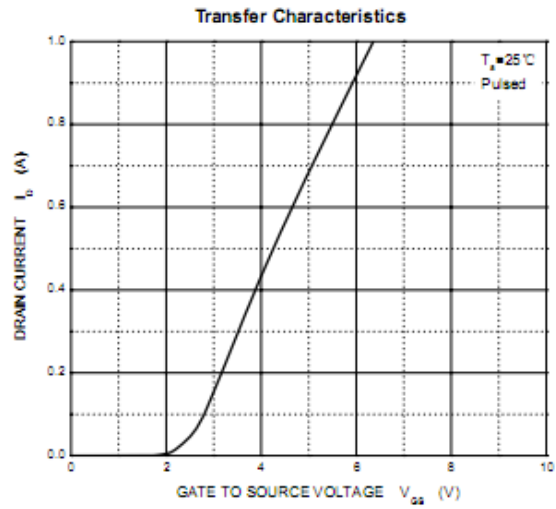
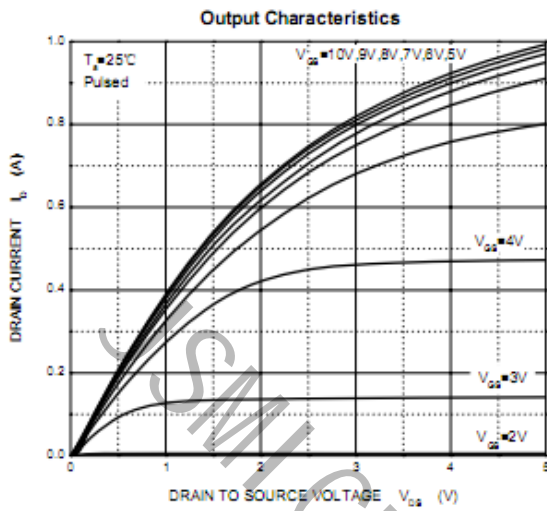
极限参数/Absolute Maximum Ratings(TA=25°C unless otherwise noted)

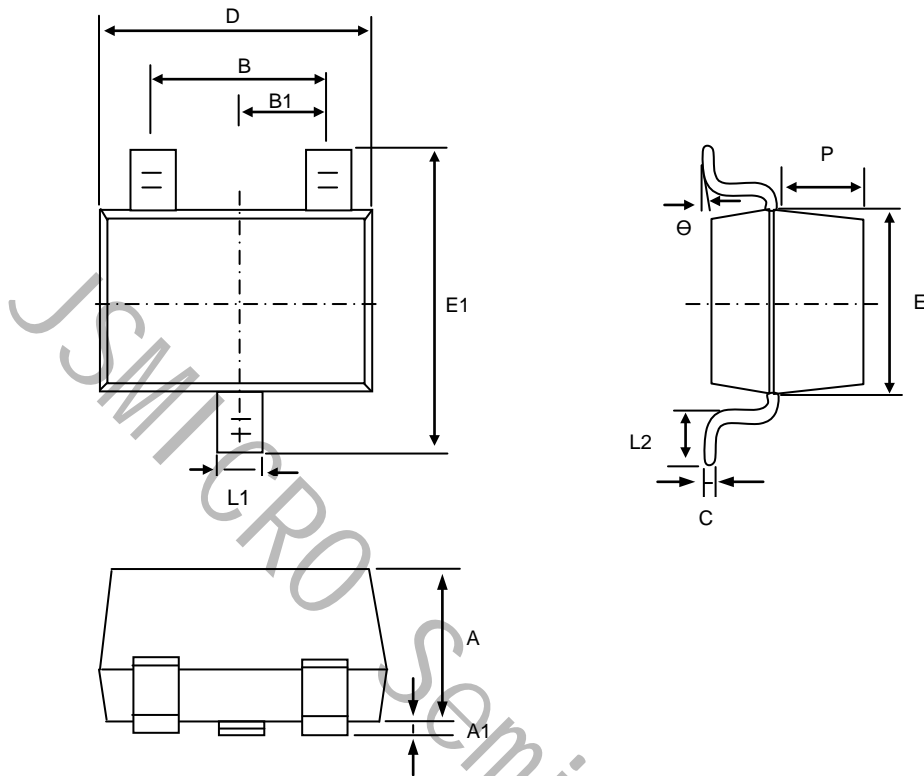
参数/Parameter	符号/ Symbol	数值/Value	单位/Unit
源极-漏极电压/Drain-Source Voltage	V_{DS}	60	V
漏极电流 (持续) /Continuous Drain Current	I_D	0.115	A
耗散功率/Power Dissipation	P_D	0.225	W
热阻/ Thermal Resistance Junction to Ambient	$R_{\theta JA}$	556	°C/mW
结温/Junction Temperature	T_j	150	°C
储存温度/Storage Temperature	T_{stg}	-55 ~ 150	°C

电性能参数/Electrical Characteristics (TA=25°C unless otherwise noted)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	最小值 Min	典型值 Typ	最大值 Max	单位 Unit
源极-漏极击穿电压	$V_{BR(DSS)}$	$V_{GS}=0V, I_D=250\mu A$	60			V
栅极开启电压	$V_{GS(th)}$	$I_D=250\mu A, V_{GS}=V_{DS}$	1.0		2.5	V
栅极漏电流	I_{GSS}	$V_{GS}=\pm 25V, V_{DS}=0V$			± 80	nA
零栅压漏极电流	I_{DSS}	$V_{GS}=0V, V_{DS}=60V$			1	μA
漏极导通电流	$I_{D(ON)}$	$V_{GS}=10V, V_{DS}=7V$	500			mA
漏极源极导通电阻	$R_{DS(ON)}$	$V_{GS}=10V, I_D=500mA$	1		7.2	Ω
		$V_{GS}=5V, I_D=50mA$	1		7.2	
正向跨导	g_{fs}	$V_{DS}=10V, I_D=200mA$	80		500	ms
漏极-源极导通电压	$V_{DS(ON)}$	$V_{GS}=10V, I_D=500mA$	0.5		3.75	V
		$V_{GS}=5V, I_D=50mA$	0.05		0.375	V
二极管正向压降	V_{SD}	$I_S=115mA, V_{GS}=0V$	0.55		1.2	V
输入电容	C_{iss}	$V_{DS}=25V, V_{GS}=0V, f=1MHz$			50	pF
输出电容	C_{oss}				25	
开启时间	$t_{(on)}$	$V_{DD}=25V, I_D=500mA,$ $V_{GEN}=10V, R_G=25\Omega, R_L=50$ Ω			20	ns
关闭时间	$t_{(off)}$				40	ns
反向恢复时间	T_{rr}	$I_{SD}=800mA, V_{GS}=0V,$		400		ns

典型特性曲线图/Typical Characteristics



成品外观尺寸/SOT-23 Package Information


Symbol	Dim in mm		
	Min	Nor	Max
A	0.900	1.000	1.100
A1	0.000	0.050	0.100
L1	0.350	0.400	0.500
C	0.100	0.110	0.120
D	2.800	2.900	3.000
E	1.250	1.300	1.350
E1	2.250	2.400	2.550
B	1.800	1.900	2.000
B1	0.950TPY.		
L2	0.200	0.350	0.450
P	0.550	0.575	0.600