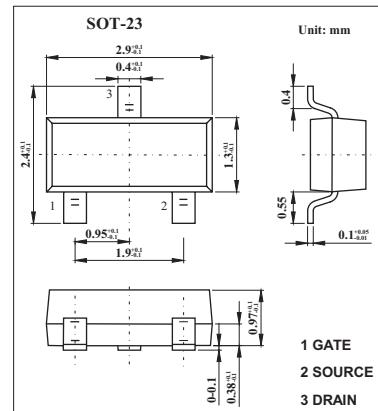
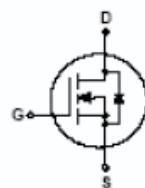


N-Channel MOSFET

2N7002

■ Features

- High density cell design for low R_{DSON}
- Voltage controlled small signal switch
- Rugged and reliable
- High saturation current capability



■ Absolute Maximum Ratings Ta=25°C

Parameter	Symbol	Rating	Unit
Drain-Source voltage	V _{DS}	60	V
Drain Current	I _D	115	mA
Power Dissipation	P _D	225	mW
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55 to 150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Drain-source breakdown voltage	V _{DSS}	V _{Gs} =0 V, I _D =10 mA	60			V
Zero gate voltage drain current	I _{DSS}	V _{Ds} =60 V, V _{Gs} =0 V			80	nA
Gate-body leakage	I _{GSS}	V _{Ds} =0 V, V _{Gs} =±25 V			±80	nA
Gate-threshold voltage	V _{Gs(th)}	V _{Ds} =V _{Gs} , I _D =250 mA	1		2.5	V
Drain-source on-resistance	R _{DSON}	V _{Gs} =10 V, I _D =500 mA	1		7.5	Ω
		V _{Gs} =5 V, I _D =50 mA	1		7.5	
On-state drain current	I _{D(on)}	V _{Gs} =10 V, V _{Ds} =7 V	500			mA
Forward tran conductance	g _{fs}	V _{Ds} =10 V, I _D =200 mA	80		500	ms
Input capacitance	C _{iss}	V _{Ds} =25 V, V _{Gs} =0 V, f=1 MHz			50	pF
Output capacitance	C _{oss}				25	
Reverse transfer capacitance	C _{rss}				5	
Turn-on Time	t _{d(on)}	V _{DD} =25 V, R _L =50 Ω I _D =500 mA, V _{GEN} =10 V R _G =25 Ω			20	ns
Turn-off Time	t _{d(off)}				40	
Drain-source on-voltage	V _{DSON}	V _{Gs} =10V, I _D =500mA	0.5		3.75	V
		V _{Gs} =5V, I _D =50mA	0.05		0.375	V
Diode forward voltage	V _{SD}	I _S =115 mA, V _{Gs} =0 V	0.55		1.2	V

■ Marking

Marking	702
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