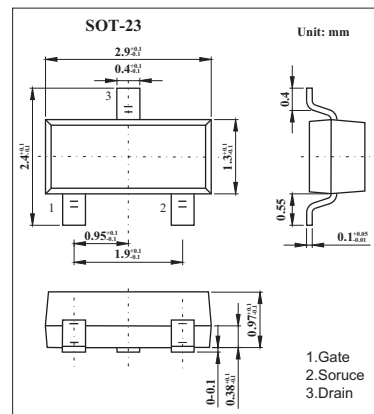
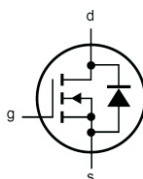


■ Features

- High density cell design for low R<sub>DS(on)</sub>
- 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 <sub>DS</sub>	60	V
Gate-Source Voltage	V <sub>GS</sub>	± 20	V
Drain Current - Continuous	I <sub>D</sub>	200	mA
- Pulsed Note(1)		500	
Power dissipation @ TA = 25°C	P <sub>D</sub>	0.4	W
Operating and storage junction temperature range	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150	°C

Notes: 1. Pulse width limited by maximum junction temperature.

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test conditons	Min	Typ	Max	Unit
Drain-source breakdown voltage	V <sub>(BR)DSS</sub>	V <sub>GS</sub> =0 V, I <sub>D</sub> =10 μA	60			V
Gate-threshold voltage	V <sub>GS(th)</sub>	V <sub>DS</sub> =V <sub>GS</sub> , I <sub>D</sub> =1mA	0.8	2.1	3	
Gate-body leakage	I <sub>GSS</sub>	V <sub>DS</sub> =0 V, V <sub>GS</sub> =± 20 V			± 100	nA
Zero gate voltage drain current	I <sub>DSS</sub>	V <sub>DS</sub> =48 V, V <sub>GS</sub> =0 V			1	μA
					T <sub>C</sub> = 125°C	
On-state drain current	I <sub>D(on)</sub>	V <sub>GS</sub> =4.5 V, V <sub>DS</sub> =10 V		0.35	0.075	A
Drain-source on-resistance	R <sub>DS(on)</sub>	V <sub>GS</sub> =10 V, I <sub>D</sub> =500 mA			5	Ω
		V <sub>GS</sub> =4.5 V, I <sub>D</sub> =75 mA			5.3	
Forward tran conductance	g <sub>ts</sub>	V <sub>DS</sub> =10 V, I <sub>D</sub> =200 mA	100			ms
Input capacitance	C <sub>iss</sub>	V <sub>DS</sub> =25 V, V <sub>GS</sub> =0 V, f=1 MHz		22	60	pF
Output capacitance	C <sub>oss</sub>			11	25	
Reverse transfer capacitance	C <sub>rss</sub>			2	5	
Turn-on Time	t <sub>d(on)</sub>	V <sub>DD</sub> = 15 V, R <sub>L</sub> = 25 Ω			10	ns
Turn-off Time	t <sub>d(off)</sub>	I <sub>D</sub> = 0.5 A, V <sub>GEN</sub> = 10 V, R <sub>G</sub> = 25Ω			10	ns

■ Marking

Marking	702
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