MMFTN3019E

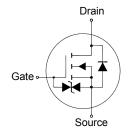
N-Channel Field Effect Transistor

Applications

· Interfacing, switching

Features

- · Low on-resistance
- · Fast switching speed
- Low voltage drive makes this device ideal for portable equipment
- Drive circuits can be simple
- · Parallel use is easy





1.Gate 2.Source 3.Drain SOT-523 Plastic Package

Absolute Maximum Ratings ($T_a = 25 \, ^{\circ}$ C)

Absolute Maximum Natings (1a = 25°C)			
Parameter	Symbol	Value	Unit
Drain-Source Voltage	V _{DSS}	30	V
Gate-Source Voltage	V _{GSS}	± 20	V
Drain Current - Continuous Drain Current - Pulsed	I _D	± 100 ± 400 ¹⁾	mA
Total Power Dissipation	P _{tot}	150 ²⁾	mW
Channel temperature	T_ch	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

¹⁾P_W ≤ 10 µs, Duty cycle ≤ 1 %



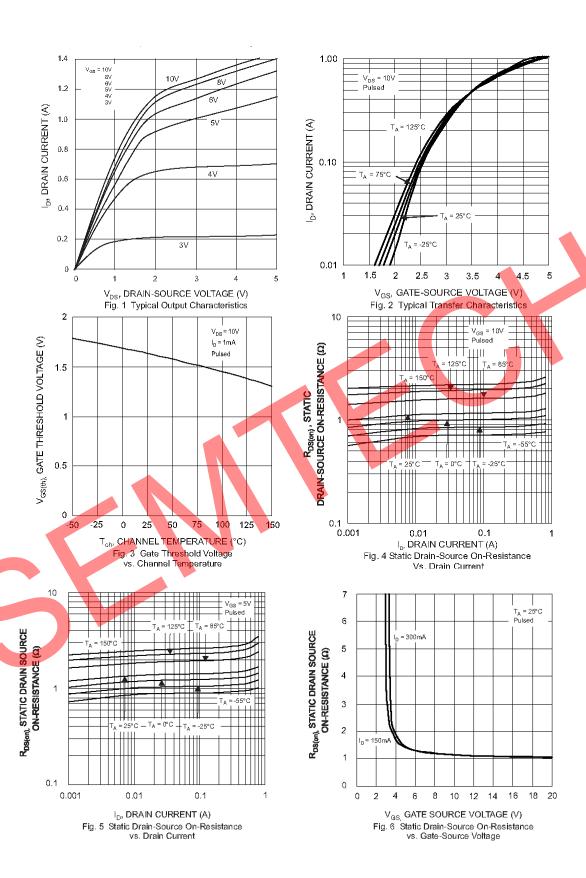
²⁾ With each pin mounted on the recommended lands

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Characteristics at T_a = 25 °C

Characteristics at T _a = 25 °C	I			I	1
Parameter	Symbol	Min.	Тур.	Max.	Unit
Drain-Source Breakdown Voltage at I_D = 10 μ A	V _{(BR)DSS}	30	-	-	V
Zero Gate Voltage Drain Current at V _{DS} = 30 V	I _{DSS}	-	-	1	μΑ
Gate-source Leakage at $V_{GS} = \pm 20 \text{ V}$	I _{GSS}	ı	ı	± 1	μΑ
Gate-Source Threshold Voltage at V_{DS} = 3 V, I_D = 100 μ A	$V_{GS(th)}$	0.8	ı	1.5	V
Static Drain-Source On-Resistance at V_{GS} = 4 V, I_D = 10 mA at V_{GS} = 2.5 V, I_D = 1 mA	R _{DS(on)}	1 1		8 13	Ω
Forward transfer admittance at $V_{DS} = 3 \text{ V}$, $I_D = 10 \text{ mA}$	y _{fs}	20		-	ms
Input Capacitance at V _{DS} = 5 V, f = 1 MHz	C _{iss}	-	13	-	pF
Output Capacitance at V _{DS} = 5 V, f = 1 MHz	Coss	-	9	-	pF
Reverse Transfer Capacitance at V _{DS} = 5 V, f = 1 MHz	C _{rss}		4	-	pF
Turn-On delayTime at V_{DD} = 5 V, I_{D} = 10 mA, V_{GS} = 5 V, R_{L} = 500 Ω , R_{G} = 10 Ω	t _{d(on)}	ı	15	ı	ns
Turn-Off Delay Time at V_{DD} = 5 V, I_D = 10 mA, V_{GS} = 5 V, R_L = 500 Ω , R_G = 10 Ω	$t_{d(off)}$	-	80	-	ns
Rise Time at V_{DD} = 5 V, I_D = 10 mA, V_{GS} = 5 V, R_L = 500 Ω , R_G = 10 Ω	t _r	-	35	-	ns
Turn-off delay time at V_{DD} = 5 V, I_D = 10 mA, V_{GS} = 5 V, R_L = 500 Ω , R_G = 10 Ω	t _f	-	80	-	ns









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