

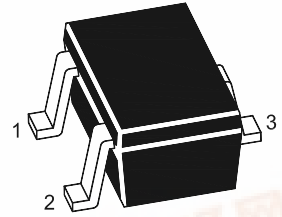
# MMFTN3018W

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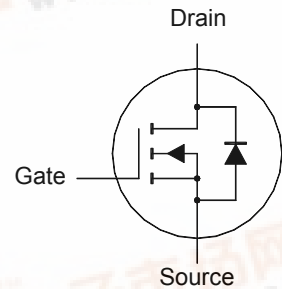
## Silicon N-Channel MOSFET

### Applications

- Interfacing, switching



1. Gate 2. Source 3. Drain  
SOT-323 Plastic Package



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

Parameter	Symbol	Value	Unit
Drain Source Voltage	$V_{DSS}$	30	V
Gate Source Voltage	$V_{GSS}$	$\pm 20$	V
Drain Current	$I_D$	100	mA
Drain Current (Pulsed)	$I_{DP}^{1)}$	400	mA
Total Power Dissipation	$P_{tot}^{2)}$	200	mW
Channel Temperature	$T_{ch}$	150	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 55 to + 150	$^\circ\text{C}$

### Thermal Resistance

Parameter	Symbol	Value	Unit
Channel to Ambient	$R_{th(ch-a)}^{2)}$	625	$^\circ\text{C/W}$

<sup>1)</sup>  $P_w \leq 10\text{ }\mu\text{s}$ , duty cycle  $\leq 1\%$

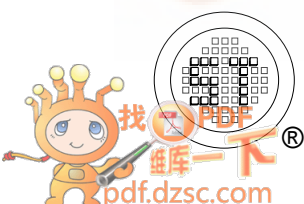
<sup>2)</sup> With each pin mounted on the recommended lands

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Dated: 06/01/2007

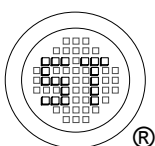


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## Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Drain Source Breakdown Voltage at $I_D = 10\text{ }\mu\text{A}$	$V_{(BR)DSS}$	30	-	-	V
Zero Gate Voltage Drain Current at $V_{DS} = 30\text{ V}$	$I_{DSS}$	-	-	1	$\mu\text{A}$
Gate Source Leakage Current at $V_{GS} = \pm 20\text{ V}$	$\pm I_{GSS}$	-	-	1	$\mu\text{A}$
Gate Source Threshold Voltage at $V_{DS} = 3\text{ V}$ , $I_D = 100\text{ }\mu\text{A}$	$V_{GS(th)}$	0.8	-	1.5	V
Static Drain Source On-State Resistance at $V_{GS} = 4\text{ V}$ , $I_D = 10\text{ mA}$	$R_{DS(on)}$	-	-	8	$\Omega$
Static Drain Source On-State Resistance at $V_{GS} = 2.5\text{ V}$ , $I_D = 1\text{ mA}$	$R_{DS(on)}$	-	-	13	$\Omega$
Forward Transfer Admittance at $V_{DS} = 3\text{ V}$ , $I_D = 10\text{ mA}$	$ y_{fs} $	20	-	-	mS
Input Capacitance at $V_{DS} = 5\text{ V}$ , $f = 1\text{ MHz}$	$C_{iss}$	-	13	-	pF
Output Capacitance at $V_{DS} = 5\text{ V}$ , $f = 1\text{ MHz}$	$C_{oss}$	-	9	-	pF
Reverse Transfer Capacitance at $V_{DS} = 5\text{ V}$ , $f = 1\text{ MHz}$	$C_{rss}$	-	4	-	pF



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ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001:2004  
Certificate No. 71116



ISO 9001:2000  
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