



## Transistors

## ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Gate-source leakage	$I_{GSS}$	–	–	±10	μA	$V_{GS}=\pm 20V, V_{DS}=0V$
Drain-source breakdown voltage	$V_{(BR)DSS}$	30	–	–	V	$I_D=1mA, V_{GS}=0V$
Zero gate voltage drain current	$I_{DSS}$	–	–	1	μA	$V_{DS}=30V, V_{GS}=0V$
Gate threshold voltage	$V_{GS(th)}$	1.0	–	2.5	V	$V_{DS}=10V, I_D=1mA$
Static drain-source on-state resistance	$R_{DS(on)}$ *	–	0.8	1.2	Ω	$I_D=300mA, V_{GS}=10V$
		–	1.2	1.9	Ω	$I_D=300mA, V_{GS}=4.5V$
		–	1.4	2.3	Ω	$I_D=300mA, V_{GS}=4V$
Forward transfer admittance	$ Y_{fs} $ *	0.2	–	–	S	$V_{DS}=10V, I_D=300mA$
Input capacitance	$C_{iss}$	–	20	–	pF	$V_{DS}=10V$
Output capacitance	$C_{oss}$	–	13	–	pF	$V_{GS}=0V$
Reverse transfer capacitance	$C_{rss}$	–	4	–	pF	$f=1MHz$
Turn-on delay time	$t_{d(on)}$ *	–	7	–	ns	$V_{DD}=15V$
Rise time	$t_r$ *	–	6	–	ns	$I_D=150mA$
Turn-off delay time	$t_{d(off)}$ *	–	9	–	ns	$V_{GS}=10V$
Fall time	$t_f$ *	–	40	–	ns	$R_L=100\Omega$ $R_G=10\Omega$

\*Pulsed

## ●Body diode characteristics (Source-drain) (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_{SD}$	–	–	1.2	V	$I_S=0.16A, V_{GS}=0V$

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