

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	$R_{DS(on)}$ *	–	80	120	mΩ	$I_D = -2A, V_{GS} = -10V$
		–	125	190	mΩ	$I_D = -1A, V_{GS} = -4.5V$
		–	140	210	mΩ	$I_D = -1A, V_{GS} = -4.0V$
Forward transfer admittance	$ Y_{fs} $ *	1.4	–	–	S	$V_{DS} = -10V, I_D = -1A$
Input capacitance	C_{iss}	–	350	–	pF	$V_{DS} = -10V$
Output capacitance	C_{oss}	–	80	–	pF	$V_{GS} = 0V$
Reverse transfer capacitance	C_{rss}	–	50	–	pF	$f = 1MHz$
Turn-on delay time	$t_{d(on)}$ *	–	11	–	ns	$V_{DD} = -15V$
Rise time	t_r *	–	11	–	ns	$I_D = -1A$
Turn-off delay time	$t_{d(off)}$ *	–	35	–	ns	$V_{GS} = -10V$
Fall time	t_f *	–	11	–	ns	$R_L = 15\Omega$
Total gate charge	Q_g	–	3.9	–	nC	$V_{DD} = -15V, V_{GS} = -5V$
Gate-source charge	Q_{gs}	–	1.3	–	nC	$I_D = -2A$
Gate-drain charge	Q_{gd}	–	1.1	–	nC	$R_L = 7.5\Omega, R_G = 10\Omega$

*Pulsed

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{SD}	–	–	–1.2	V	$I_S = -0.8A, V_{GS} = 0V$

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