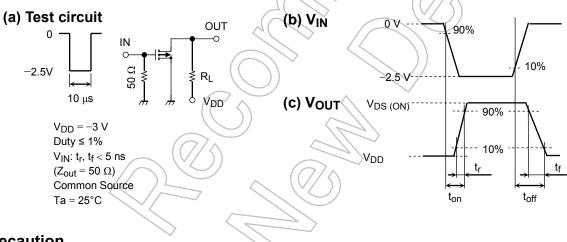
Electrical Characteristics (Ta = 25°C)

Characteristic		Symbol	Test Condition	MIN.	TYP.	MAX.	UNIT
Gate leakage current		I _{GSS}	$V_{GS}=\pm 10~V,~V_{DS}=0$	—	—	±1	μA
Drain-Source breakdown voltage		V (BR) DSS	$I_D = -0.1 \text{ mA}, V_{GS} = 0$	-20	_		V
Drain cut-off current		I _{DSS}	$V_{DS} = -20 V, V_{GS} = 0$	\backslash	_	-1	μA
Gate threshold voltage		V _{th}	$V_{DS} = -3 \text{ V}, \text{ I}_{D} = -0.1 \text{ mA}$	-0.6	-	-1.1	V
Forward transfer admittance		Y _{fs}	$V_{DS} = -3 V$, $I_D = -10 mA$ (Note2)	25)?		mS
Drain-Source on-resistance		R _{DS (ON)}	$I_D = -10 \text{ mA}, V_{GS} = -4 \text{ V}$ (Note2)	77	6	8	Ω
			I _D = -10 mA, V _{GS} = -2.5 V (Note2)	\bigcirc	8	12	
			$I_D = -1 \text{ mA}, V_{GS} = -1.5 \text{ V}$ (Note2)	_	18	45	
Input capacitance		C _{iss}		_	11		pF
Reverse transfer capacitance		C _{rss}	$V_{DS} = -3 V$, $V_{GS} = 0$, f = 1 MHz	_	3.7	1	pF
Output capacitance		C _{oss}		_	(10	\searrow	pF
Switching time	Turn-on time	t _{on}	$V_{DD} = -3 V, I_D = -10 mA,$ $V_{GS} = 0 \text{ to } -2.5 V$	-6	130	> -	
	Turn-off time	t _{off}			190) —	ns

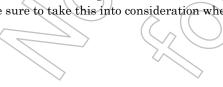
Note2: Pulse test

Switching Time Test Circuit

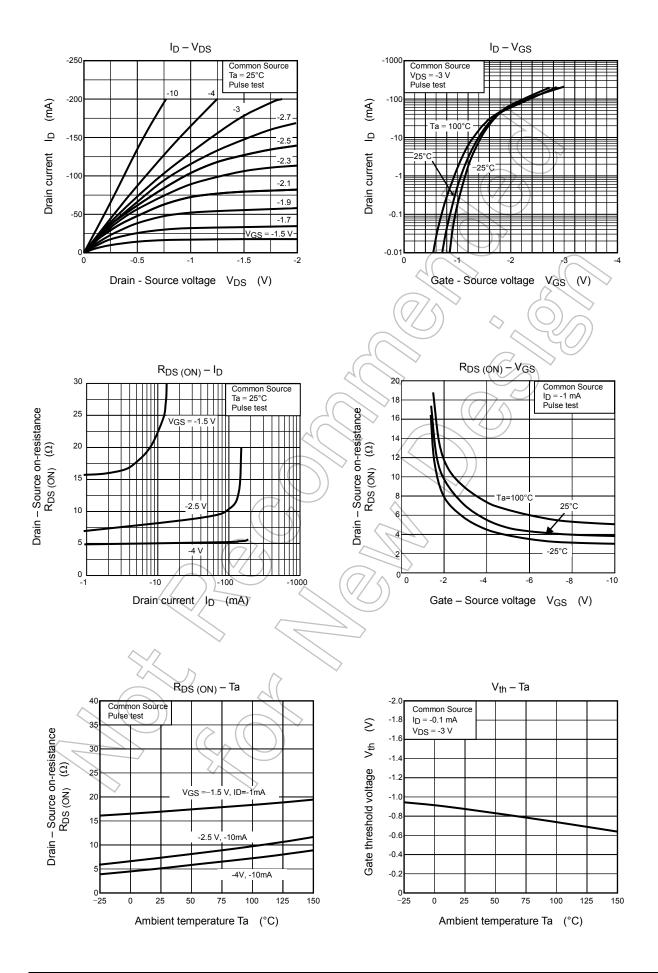


Precaution

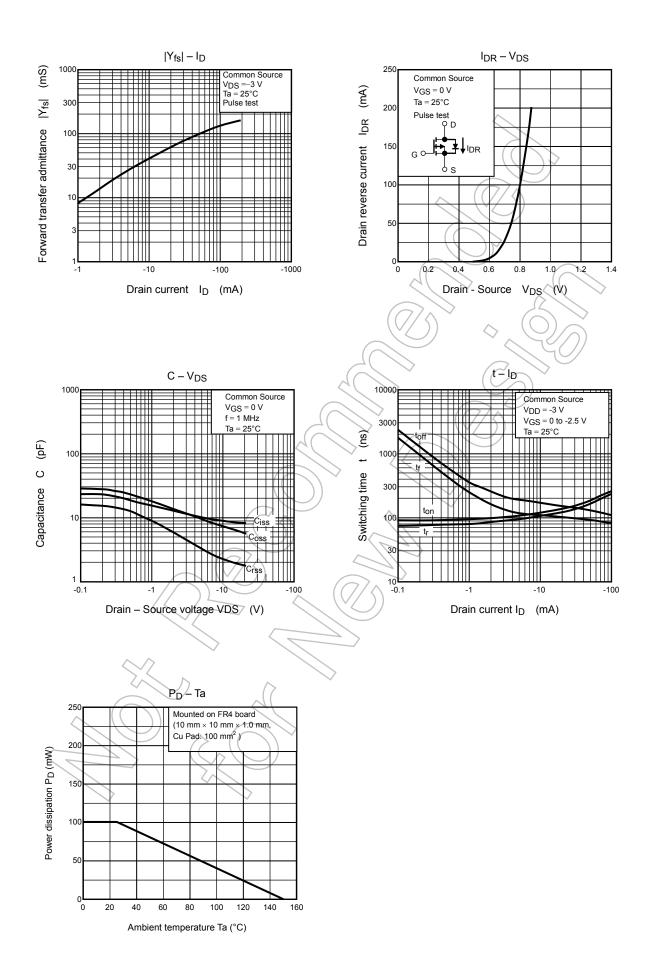
 $\begin{array}{l} V_{th} \mbox{ can be expressed as the voltage between the gate and source when the low operating current value is ID = -0.1 mA for this product. For normal switching operation, VGS (on) requires a higher voltage than V_{th} and VGS (off) requires a lower voltage than V_{th}. (The relationship can be established as follows: VGS (off) < V_{th} < V_{GS} (on).) \\ Be sure to take this into consideration when using the device. \end{array}$



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