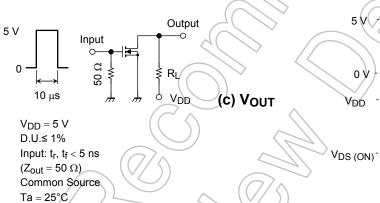
Electrical Characteristics (Ta = 25°C)

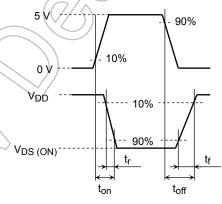
Characteristics		Symbol	Test Condition	Min	Тур.	Max	Unit
Gate leakage current		I _{GSS}	$V_{GS} = \pm 16 \text{ V}, V_{DS} = 0$	_	_	±1	μА
Drain-source breakdown voltage		V (BR) DSS	$I_D = 0.1 \text{ mA}, V_{GS} = 0$	30	_	_	V
Drain cut-off current		I _{DSS}	V _{DS} = 30 V, V _{GS} = 0	/	_	1	μА
Gate threshold voltage		V _{th}	V _{DS} = 3 V, I _D = 0.1 mA	0.8	_	1.5	V
Forward transfer admittance		Y _{fs}	$V_{DS} = 3 \text{ V}, I_D = 10 \text{ mA}$	25))^_	_	mS
Drain-source ON resistance		R _{DS} (ON)	I _D = 10 mA, V _{GS} = 4 V	7/~	2.2	4.0	Ω
			I _D = 10 mA, V _{GS} = 2.5 V	())	4.0	7.0	
Input capacitance		C _{iss}	V _{DS} = 3 V, V _{GS} = 0, f = 1 MHz		7.8	_	pF
Reverse transfer capacitance		C _{rss}	V _{DS} = 3 V, V _{GS} = 0, f = 1 MHz	<i></i>	3.6	_	pF
Output capacitance		Coss	V _{DS} = 3 V, V _{GS} = 0, f = 1 MHz	_	8.8	_	pF
Switching time	Turn-on time	t _{on}	-V _{DD} = 5 V, I _D = 10 mA, V _{GS} = 0 to 5 V		50	\rightarrow	- ns
	Turn-off time	t _{off}		-6	180	> —	

Switching Time Test Circuit

(a) Test circuit







Precaution

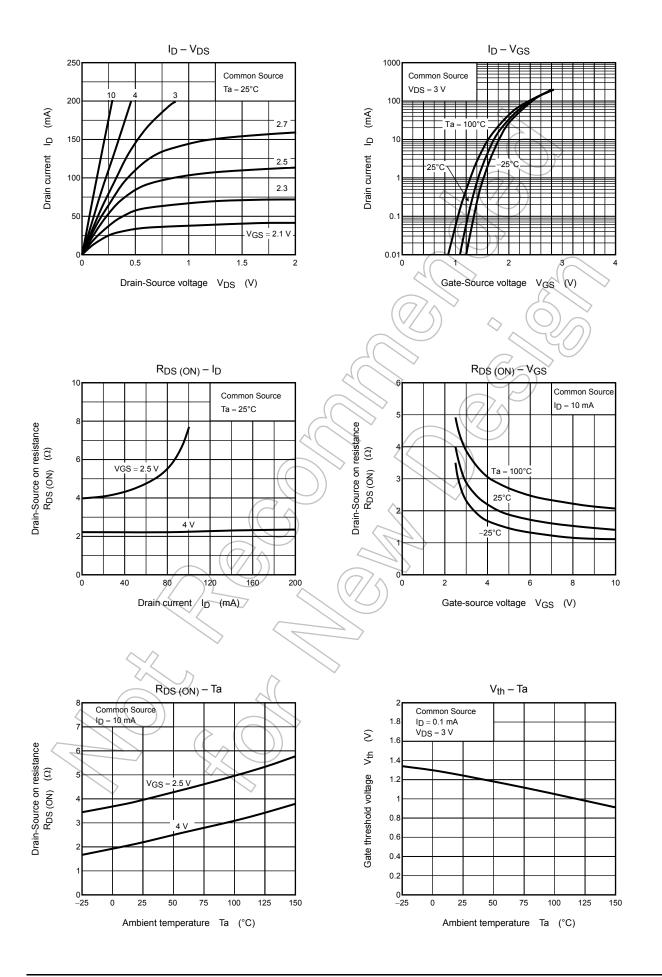
 V_{th} can be expressed as voltage between gate and source when low operating current value is I_D = 100 μA for this product. For normal switching operation, V_{GS} (on) requires higher voltage than V_{th} and V_{GS} (off) requires lower voltage than V_{th} .

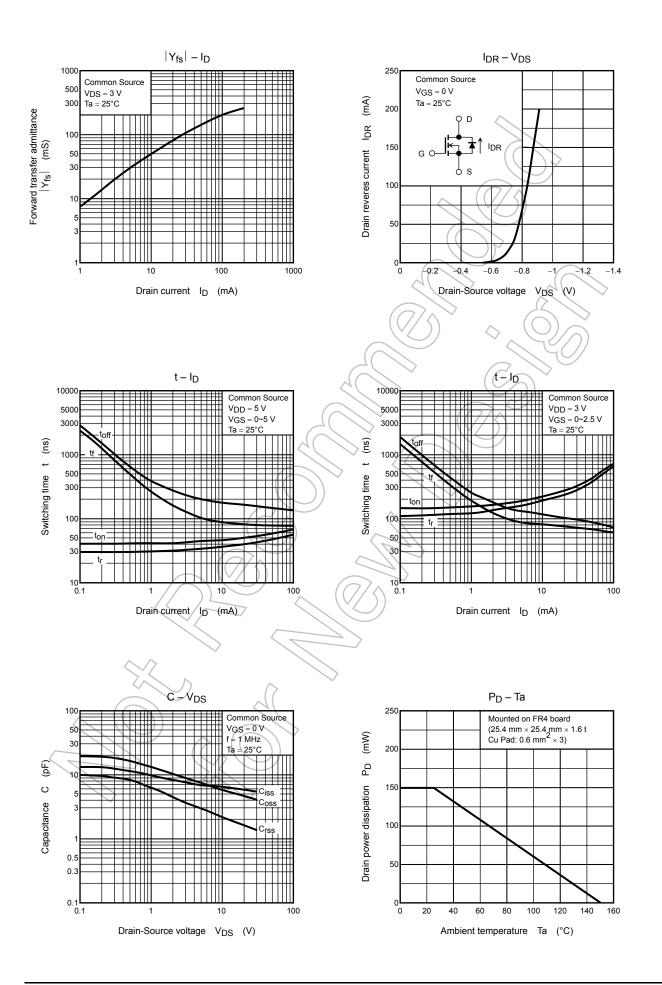
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(relationship can be established as follows: $V_{GS\;(off)} < V_{th} < V_{GS\;(on)}$)

Please take this into consideration for using the device.

2014-03-01





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