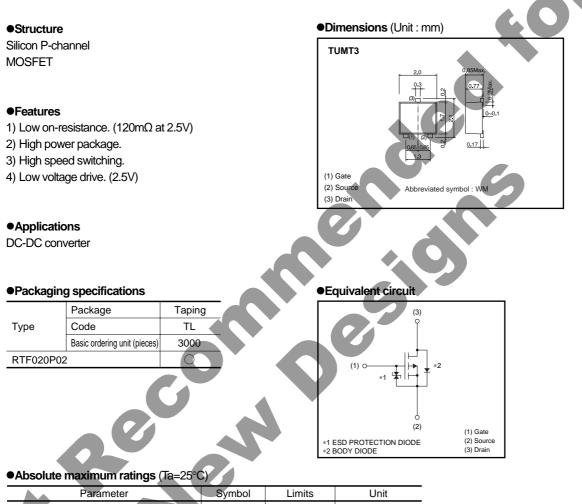
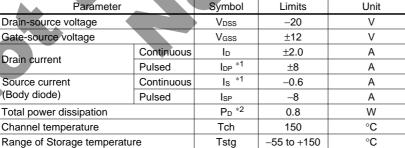
2.5V Drive Pch MOSFET

RTF020P02





*1 Pw≤10μs, Duty cycle≤1% *2 Mounted on a ceramic board

Thermal resistance

Parameter	Symbol	Limits	Unit
Channel to ambient	Rth(ch-a) *	156	°C / W
* Mounted on a ceramic board.			



Transistors

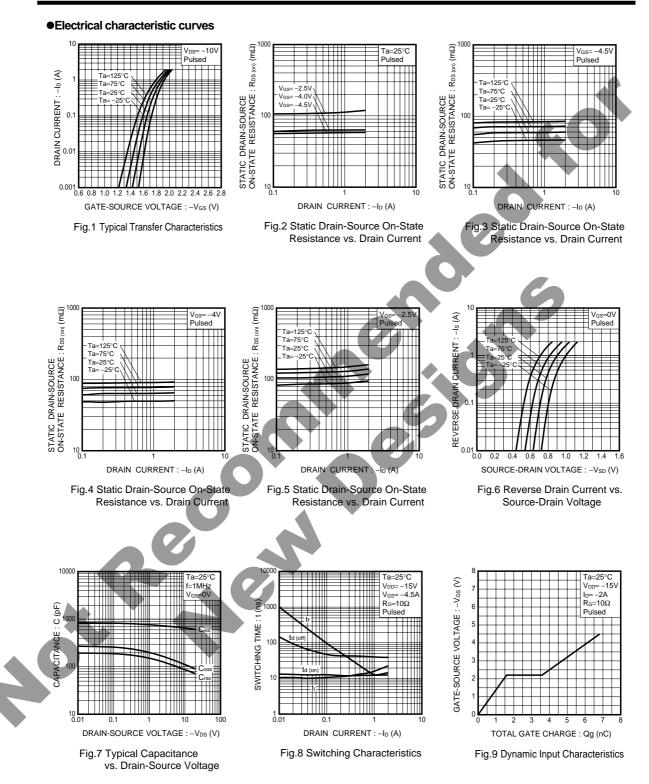
Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Gate-source leakage	lgss	-	-	±10	μA	Vgs=±12V, Vds=0V	
Drain-source breakdown voltage	V(BR) DSS	-20	-	-	V	I _D = -1mA, V _{GS} =0V	
Zero gate voltage drain current	IDSS	-	-	-1	μA	V _{DS} = -20V, V _{GS} =0V	
Gate threshold voltage	VGS (th)	-0.7	-	-2.0	V	$V_{DS} = -10V, I_{D} = -1mA$	
		-	60	85	mΩ	I _D = -2A, V _{GS} = -4.5V	40
Static drain-source on-state resistance	RDS (on)	-	65	90	mΩ	$I_D = -2A$, $V_{GS} = -4V$	
resistance		-	120	165	mΩ	I _D = -1A, V _{GS} = -2.5V	
Forward transfer admittance	Y _{fs} *	2.0	-	-	S	V _{DS} = -10V, I _D = -1A	
Input capacitance	Ciss	-	640	-	pF	V _{DS} = -10V	
Output capacitance	Coss	-	110	-	pF	Vgs=0V	
Reverse transfer capacitance	Crss	-	85	-	pF	f=1MHz	
Turn-on delay time	t _{d (on)} *	_	12	-	ns	ID= -1A	
Rise time	tr *	-	15	-	ns	VDD≒ -15V	
Turn-off delay time	td (off) *	-	40	-	ns	V _{GS} = –4.5V R∟=15Ω	
Fall time	t _f *	-	12	-	ns	R _G =10Ω	
Total gate charge	Qg *	-	7.0	-	nC	V _{DD} ≒-15V R ∟=7 .5Ω	
Gate-source charge	Q _{gs} *	-	1.6	-	nC	V _{GS} =-4.5V R _G =10Ω	
Gate-drain charge	Q _{gd} *	-	2.0	-	nC	ID=-2A	
⊧Pulsed							

Gate-drain charge	Q _{gd} *	_	2.0	_	nC	ID=-2A
*Pulsed	. <u> </u>					
Body diode characteristic						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	Vsd	-	-	-1.2	V	Is= -0.6A, V _{GS} =0V
	·					

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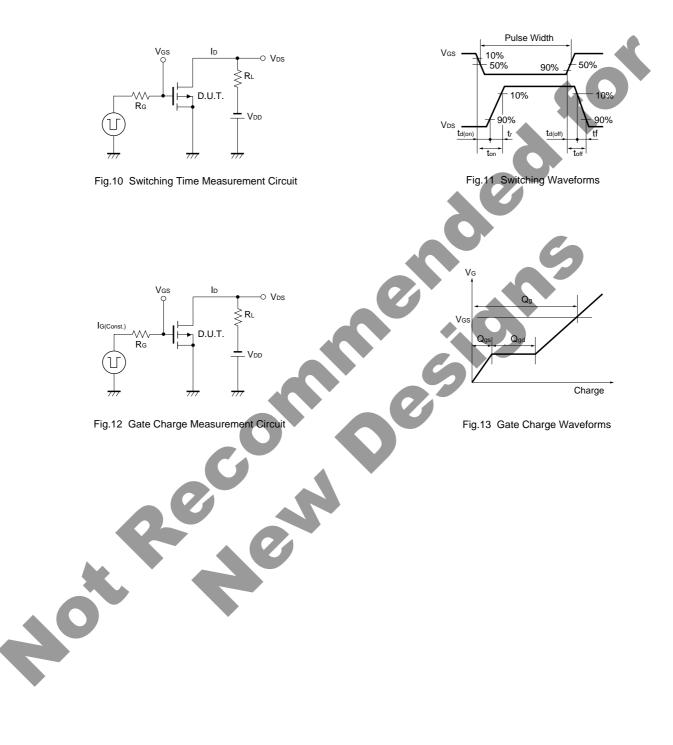
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Transistors

Measurement circuits



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