

2.5V Drive Nch MOSFET

RJU003N03

Structure

Silicon N-channel MOSFET

Features

1) Low On-resistance.

2) Low voltage drive (2.5V drive).

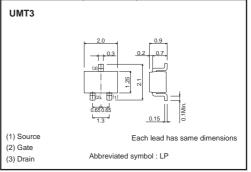
Applications

Switching

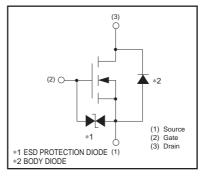
•Packaging specifications and hre

	Package	Taping
Туре	Code	T106
	Basic ordering unit (pieces)	3000
RJU003N03	}	0

•Dimensions (Unit : mm)



Inner circuit



•Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit
Drain-source voltage		Vdss	30	V
Gate-source voltage		V _{GSS}	±12	V
Ducin company	Continuous	ID	±300	mA
Drain current	Pulsed	I _{DP} *1	±1.2	А
Total power dissipation		P _D *2	200	mW
Channel temperature		Tch	150	°C
Range of storage temperature		Tstg	-55 to +150	۵°
1 D 110 D 1 1 110/				

*1 Pw≤10 $\mu s,$ Duty cycle≤1% *2 Each terminal mounted on a recommended land

Thermal resistance

625	°C/W
	625

h terminal mounted on a recommended land

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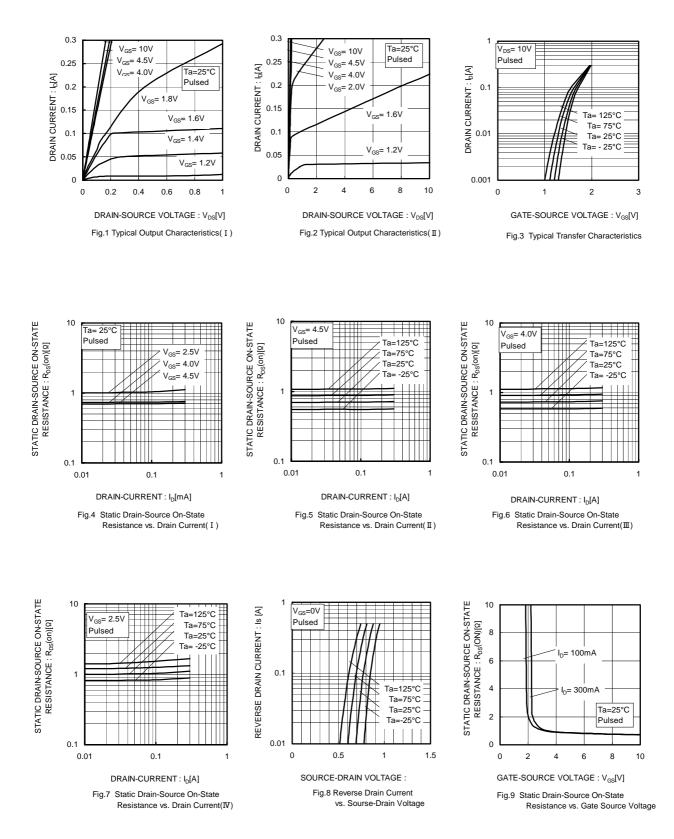
•Electrical characteristics (Ta=25°C)

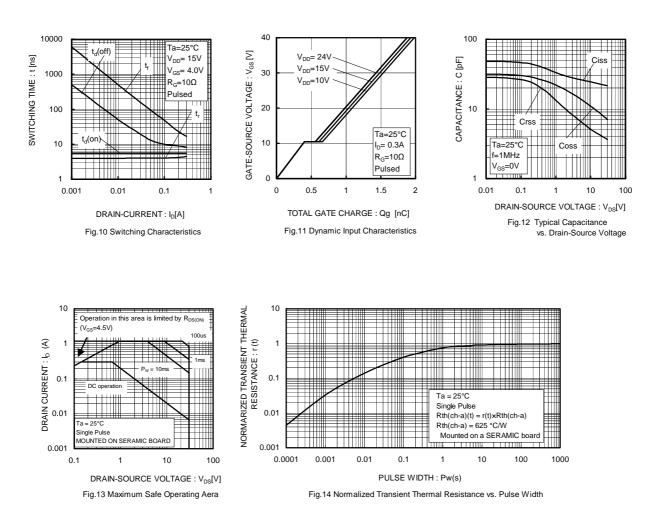
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Gate-source leakage	lgss	-	-	±10	μΑ	Vgs=±12V, Vds=0V	
Drain-source breakdown voltage	V(BR) DSS	30	-	-	V	I _D = 1mA, V _{GS} =0V	
Zero gate voltage drain current	IDSS	-	-	1	μΑ	V _{DS} = 30V, V _{GS} =0V	
Gate threshold voltage	VGS (th)	0.8	-	1.5	V	V _{DS} = 10V, I _D = 1mA	
Static drain-source on-state resistance		-	0.8	1.1	Ω	ID= 300mA, VGs= 4.5V	
	$R_{DS(on)^*}$	-	0.9	1.3	Ω	I _D = 300mA, V _{GS} = 4V	
		-	1.4	1.9	Ω	I _D = 300mA, V _{GS} = 2.5V	
Forward transfer admittance	Y _{fs} *	0.4	-	-	S	V _{DS} = 10V, I _D = 300mA	
Input capacitance	Ciss	-	24	-	pF	VDS= 10V	
Output capacitance	Coss	-	11	-	pF	V _{GS} =0V	
Reverse transfer capacitance	Crss	-	5	-	pF	f=1MHz	
Turn-on delay time	t _{d (on)} *	-	6	-	ns	V _{DD} ≒ 15V I _D = 150mA	
Rise time	tr *	-	4	_	ns		
Turn-off delay time	td (off) *	-	9	-	ns	VGs= 4V RL=100Ω	
Fall time	t _f *	_	32	_	ns	$R_{G}=10\Omega$	

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	Vsd	-	-	1.2	V	Is= 200mA, V _{GS} =0V

•Electrical characteristics curves





Notes

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Appendix-Rev4.1

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for MOSFET category:

Click to view products by ROHM manufacturer:

Other Similar products are found below :

614233C 648584F IRFD120 JANTX2N5237 FCA20N60_F109 FDZ595PZ 2SK2545(Q,T) 405094E 423220D TPCC8103,L1Q(CM MIC4420CM-TR VN1206L SBVS138LT1G 614234A 715780A NTNS3166NZT5G SSM6J414TU,LF(T 751625C BUK954R8-60E NTE6400 SQJ402EP-T1-GE3 2SK2614(TE16L1,Q) 2N7002KW-FAI DMN1017UCP3-7 EFC2J004NUZTDG ECH8691-TL-W FCAB21350L1 P85W28HP2F-7071 DMN1053UCP4-7 NTE221 NTE2384 NTE2903 NTE2941 NTE2945 NTE2946 NTE2960 NTE2967 NTE2969 NTE2976 NTE455 NTE6400A NTE2910 NTE2916 NTE2956 NTE2911 DMN2080UCB4-7 TK10A80W,S4X(S SSM6P69NU,LF DMP22D4UFO-7B DMN1006UCA6-7