

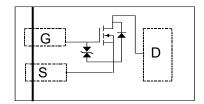
N-Channel MOSFET

Description

PNM3FD703E0-2 is designed for high speed switching applications

The enhancement mode MOS is extremely high density cell and low on-resistance.

MOSFET Product Summary				
V _{DS} (V)	$R_{DS(on)}(\Omega)$	$V_{GS(th)}(V)$	I _D (A)	
40	7.5@ V _{GS} =10V	0.5 to 1.5	0.18	



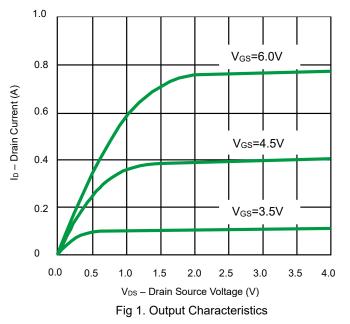
Electrical characteristics per line@25℃(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
OFF CHARACTERISTICS							
Drain-Source Breakdown Voltage	V _{DSS}	$I_D = 10 \mu A, V_{GS} = 0 V$	40	-	-	V	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =40V,V _{GS} =0V	-	-	0.5	μA	
Gate-Body Leakage Current	Igss	V _{DS} =0V,V _{GS} =±20V	-	-	±10	μA	
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250μA	0.5	-	1.5	٧	
Static Drain-Source On-Resistance	R _{DS(ON)}	V _{GS} =5V, I _D =0.05A	-	-	7.5	Ω	
Static Drain-Source On-Resistance		V_{GS} =10V, I_{D} =0.5A	-	-	7.5	Ω	
	DYNAMIC PARAMETERS						
Input Capacitance	C _{ISS}	., ., ., .,	-	-	40	pF	
Output Capacitance	C _{DSS}	V _{GS} =0V, V _{DS} =25V, f=1MHz	-	-	20	pF	
Reverse Transfer Capacitance	Crss	1- 1141112	-	-	5	pF	
SWITCHING PARAMETERS							
Turn-On Delay Time	t _{d(on)}	V _{DS} =30V, V _{GS} =10V,	-	-	20	ns	
Turn-Off Delay Time	t _{d(off)}	$R_G=25\Omega$, $R_L=150\Omega$ $I_D=0.2A$	-	-	20	ns	

Absolute maximum rating@25℃

Rating		Symbol	Value	Units
Drain-Source Voltage		V _{DS}	40	V
Gate-Source Voltage		V _G S	±20	V
Drain Current	Continuous	I _D	0.18	Α
	Pulsed	ID	0.36	Α
Total Power Dissipation	T _A =25°C	P _D	150	mW
Junction and Storage Temperature Range		TJ, TSTG	-55~+150	$^{\circ}$ C

Typical Characteristics



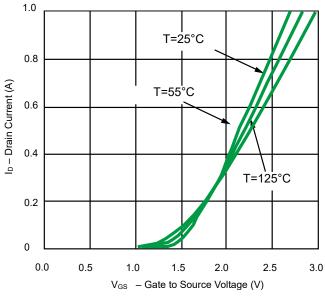


Fig 2. Transfer Characteristics

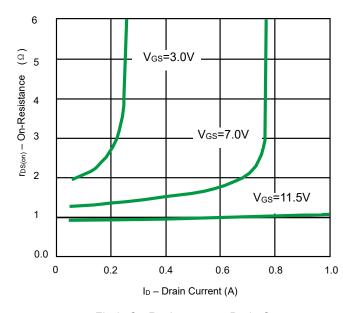


Fig 3. On-Resistance vs. Drain Current

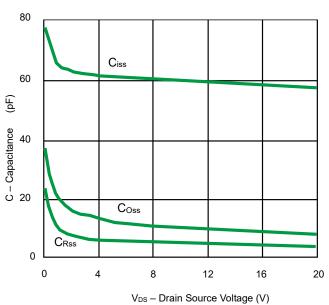
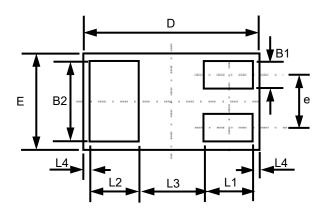


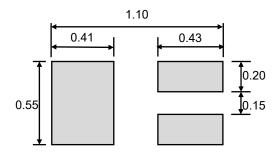
Fig 4. Capacitance

Product dimension (DFN1006-3L)





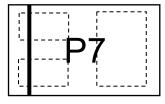
Dim	Millimeters			
Dilli	MIN	Тур	MAX	
Α	0.33	0.47	0.498	
В	0.00	0.03	0.05	
B1	0.10	0.15	0.20	
B2	0.45	0.50	0.55	
D	0.85	1.00	1.15	
E	0.45	0.60	0.75	
е		0.35		
L1	0.20	0.25	0.30	
L2	0.20	0.25	0.30	
L3	-	0.39		
L4		0.05		



Unit: mm

Suggested PCB Layout

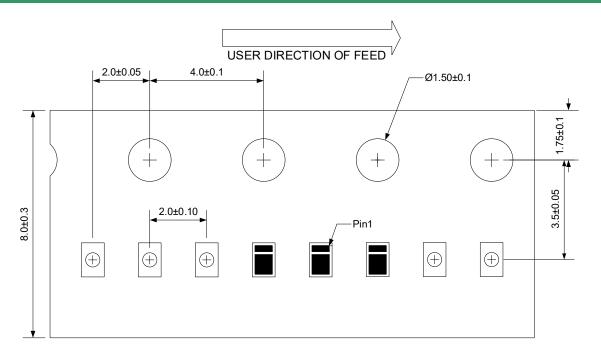
Marking information



Ordering information

Device	Package	Reel	Shipping
PNM3FD703E0-2	DFN1006-3L(Pb-Free)	7"	10000 / Tape & Reel

Load with information



Unit:mm

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