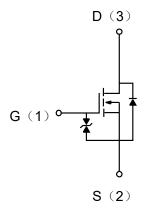


Description

PNM723T30V01 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)		
30	7@ V _{GS} =2.5V,I _D =10mA	0.5 to 1.5	0.1		



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 =10μA,V _{GS} =0V	30	-	-	V	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =30V,V _{GS} =0V	-	-	1	μA	
Gate-Body Leakage Current	Igss	V _{DS} =0V,V _{GS} =±20V	-	-	±1	μA	
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250μA	0.5	-	1.5	V	
	R _{DS(ON)}	V _{GS} =2.5V, I _D =1mA		6.5	9	Ω	
Ctatia Duain Caussa On Basistanaa		V _{GS} =2.5V, I _D =10mA		7	9	Ω	
Static Drain-Source On-Resistance		V _{GS} =4V, I _D =10mA	-	4	6	Ω	
		V _{GS} =10V, I _D =100mA	-	3	5	Ω	
Forward Transconductance	g FS	V _{DS} =5V, I _D =0.1A	-	0.2	-	S	
Source-Drain Diode Forward Voltage	VFSD (V)	ID=100mA,VGS=0V		0.75	1	V	
DYNAMIC PARAMETERS							
Input Capacitance	Ciss	., .,,,	-	-	40	pF	
Output Capacitance	Coss	V_{GS} =0V, V_{DS} =25V, V_{DS} =25V,	-	-	10	pF	
Reverse Transfer Capacitance					5	pF	

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N-Channel MOSFET

PNM723T30V01

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

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
SWITCHING PARAMETERS							
Total Gate Charge	Qg				0.5	nC	
Gate-Source Charge	Qgs	V_{GS} =4.5V, V_{DS} =6V, I_{D} =0.1A			0.2	nC	
Gate-Drain Charge	Qgd	10 -0.1A			0.2	nC	
Turn-On Delay Time	t _{d(on)}		-	3		ns	
Turn-On Rise Time	t _r	t _r V _{DS} =30V, V _{GS} =10V,		3.5		ns	
Turn-Off Delay Time	t _{d(off)}	$R_G=25\Omega$, $RL=150\Omega$, $I_D=0.1A$	-	5		ns	
Turn-On Fall Time	t _f		-	2.5		ns	

Absolute maximum rating@25℃

Rating		Symbol	Value	Units	
Drain-Source Voltage		V _{DS}	30	V	
Gate-Source Voltage		V _{GS}	±20	V	
Drain Current	Continuous	I _D	0.10	Α	
	Pulsed	I _D	0.36	Α	
Total Power Dissipation	T _A =25°C	P _D	150	mW	

Typical Characteristics

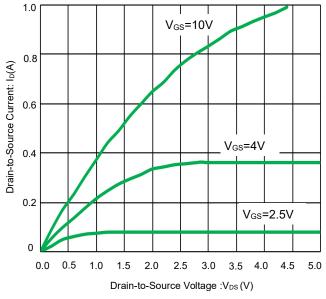


Fig 1. On-Region Characteristics

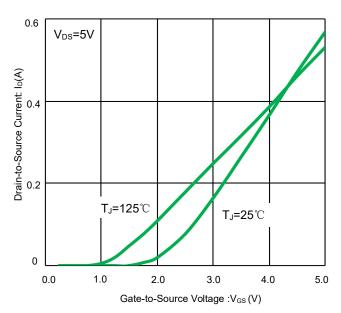
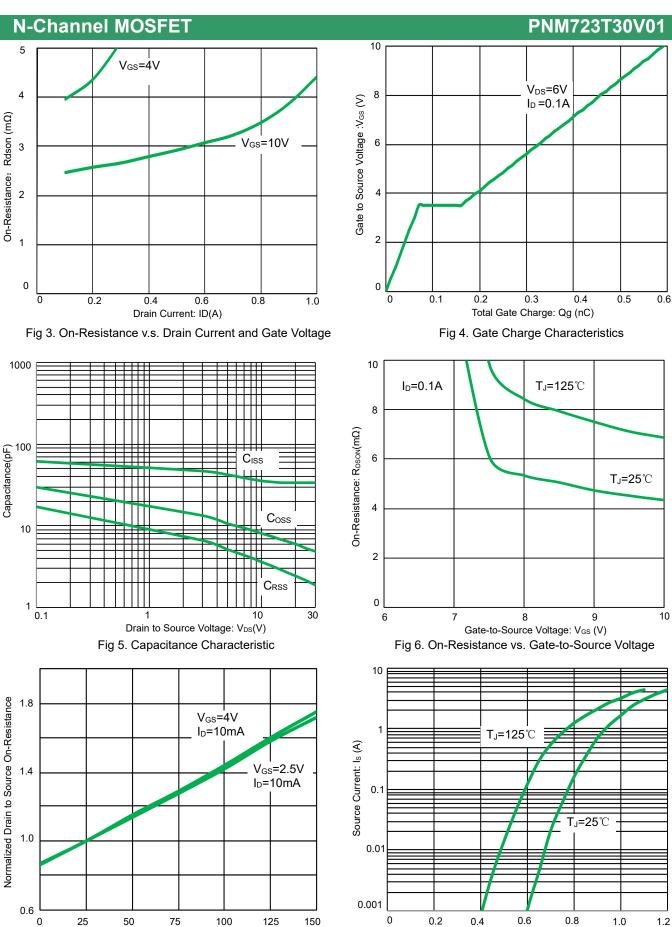


Fig 2. Transfer Characteristics





 $\label{eq:Junction Temperature: TJ ($^{\circ}$)}$ Fig 7. Normalized On-Resistance vs. Junction Temperature

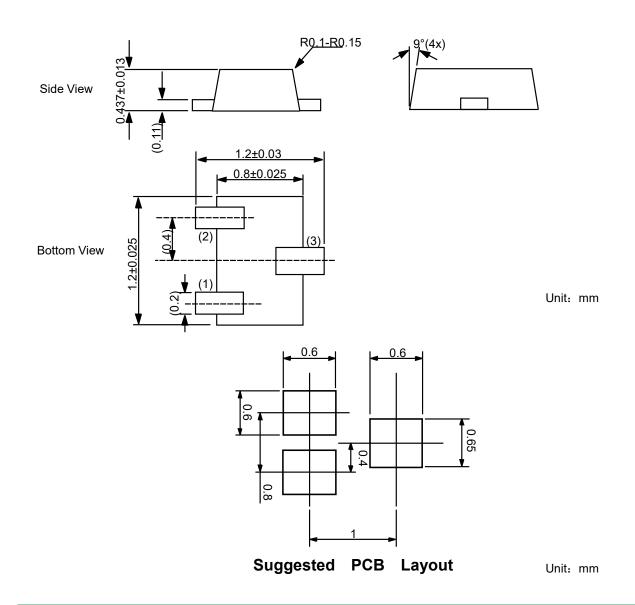
Source-to-Drain Voltage: V_{SD}(V)

Fig 8. Body diode forward voltage

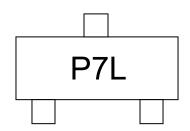


N-Channel MOSFET

Product dimension (SOT-723)



Marking information



Ordering information

Device Package		Reel	Shipping	
PNM723T30V01	SOT-723 (Pb-Free)	7"	10000 / Tape & Reel	



N-Channel MOSFET

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