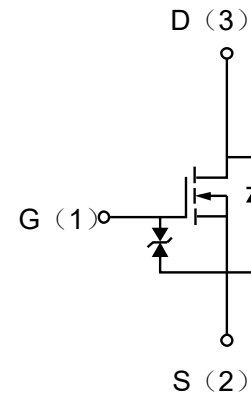


## Description

PNM723T703E0-2 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 °C ( unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
<b>OFF CHARACTERISTICS</b>						
Drain-Source Breakdown Voltage	$V_{DSS}$	$I_D=10\mu A, V_{GS}=0V$	40	-	-	V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS}=40V, V_{GS}=0V$	-	-	0.5	$\mu A$
Gate-Body Leakage Current	$I_{GSS}$	$V_{DS}=0V, V_{GS}=\pm 20V$	-	-	$\pm 10$	$\mu A$
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}, I_D=250\mu A$	0.5	-	1.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS}=5V, I_D=0.05A$	-	-	7.5	$\Omega$
		$V_{GS}=10V, I_D=0.5A$	-	-	7.5	$\Omega$
<b>DYNAMIC PARAMETERS</b>						
Input Capacitance	$C_{ISS}$	$V_{GS}=0V, V_{DS}=25V,$ $f=1MHz$	-	-	40	pF
Output Capacitance	$C_{DSS}$		-	-	20	pF
Reverse Transfer Capacitance	$C_{RSS}$		-	-	5	pF
<b>SWITCHING PARAMETERS</b>						
Turn-On Delay Time	$t_{d(on)}$	$V_{DS}=30V, V_{GS}=10V,$ $R_G=25\Omega, R_L=150\Omega$ $I_D=0.2A$	-	-	20	ns
Turn-Off Delay Time	$t_{d(off)}$		-	-	20	ns

Absolute maximum rating@25°C

Rating		Symbol	Value	Units
Drain-Source Voltage		$V_{DS}$	40	V
Gate-Source Voltage		$V_{GS}$	$\pm 20$	V
Drain Current	Continuous	$I_D$	0.18	A
	Pulsed	$I_D$	0.36	A
Total Power Dissipation		$P_D$	150	mW

Typical Characteristics

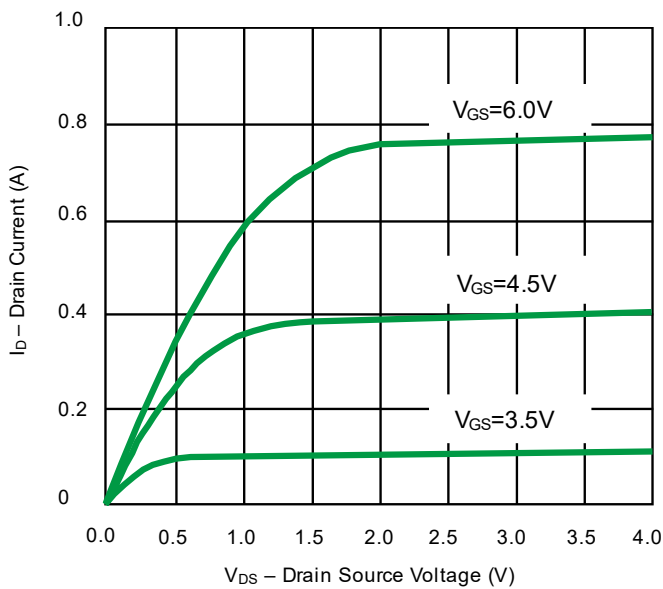


Fig 1. Output Characteristics

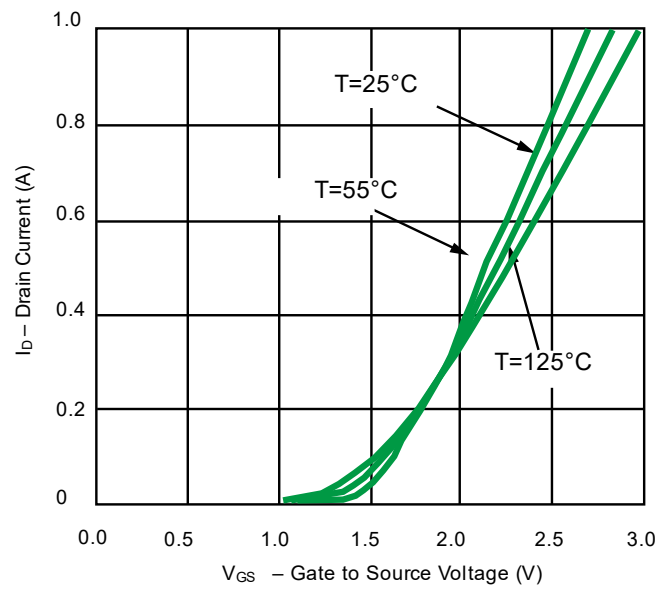


Fig 2. Transfer Characteristics

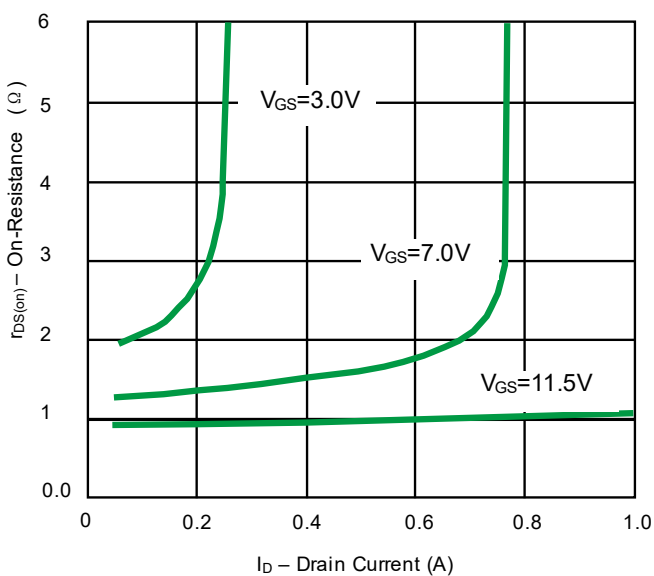


Fig 3. On-Resistance vs. Drain Current

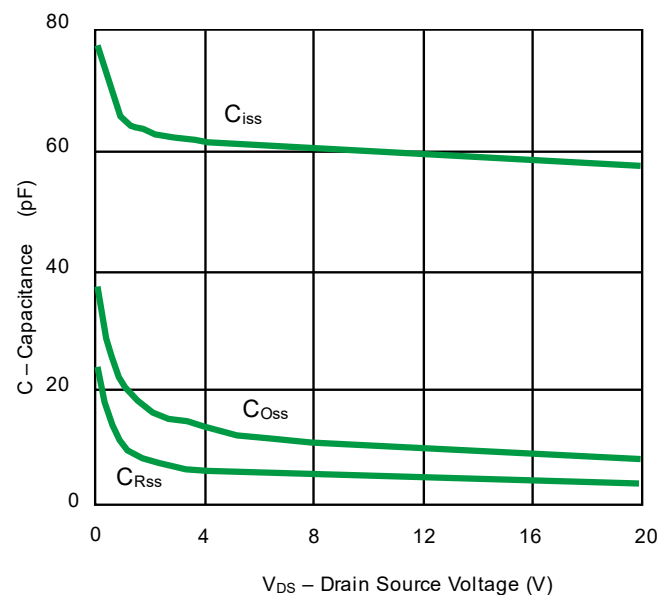
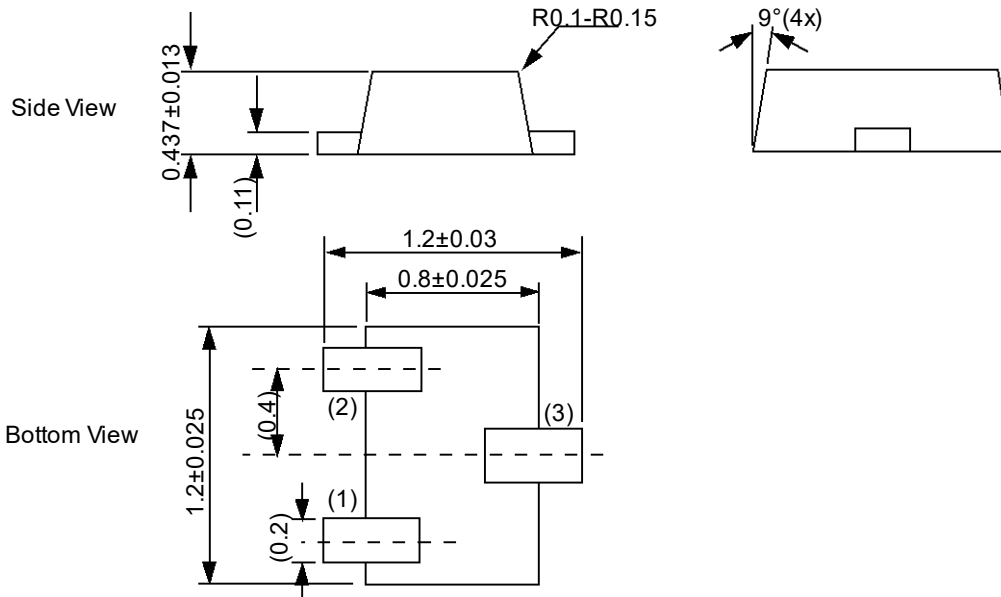
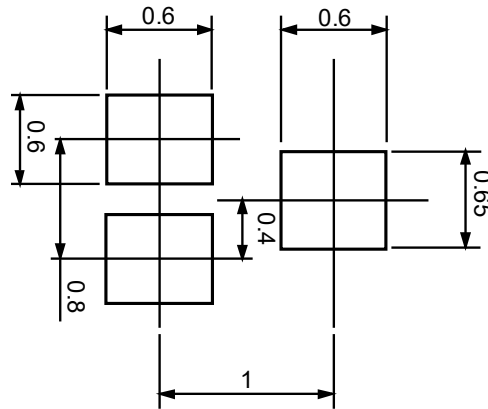


Fig 4. Capacitance

Product dimension (SOT-723)

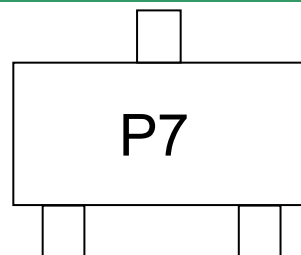


Unit: mm



Unit: mm


Marking information



Ordering information

Device	Package	Reel	Shipping
PNM723T703E0-2	SOT-723 (Pb-Free)	7"	10000 / Tape & Reel


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