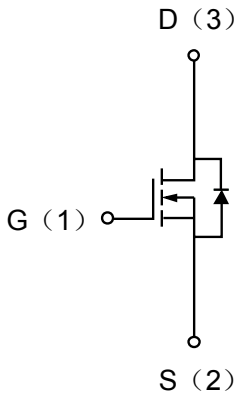
Description

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)	$r_{DS(on)}$(Ω)	$V_{GS(th)}$(V)	I_D(A)
40	3.5@ V_{GS}=10V	1 to 2.0	0.18



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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
OFF CHARACTERISTICS						
Drain-Source Breakdown Voltage	V_{DSS}	I_D =10μA,V_{GS}=0V	40	-	-	V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS} =40V,V_{GS}=0V	-	-	0.5	μA
Gate-Body Leakage Current	I_{GSS}	V_{DS} =0V,V_{GS}=±20V	-	-	±1	μA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS} =V_{GS}, I_D =250μA	1	-	-	V
Static Drain-Source On-Resistance	$R_{DS(ON)}$	V_{GS}=5V, I_D =0.05A	-	-	4.5	Ω
		V_{GS}=10V, I_D =0.5A,	-	-	4.5	Ω
DYNAMIC PARAMETERS						
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
SWITCHING PARAMETERS						
Turn-On DelayTime	$t_{d(on)}$	V_{DS}=30V, V_{GS} =10V, R_G=25Ω, R_L=150Ω I_D =0.2A	-	-	20	ns
Turn-Off DelayTime	$t_{d(off)}$		-	-	20	ns

Absolute maximum rating@25℃

Rating		Symbol	Value	Units
Drain-Source Voltage		V_{DS}	40	V
Gate-Source Voltage		V_{GS}	±20	V
Drain Current	Continuous	I_D	0.18	A
	Pulsed	I_D	0.36	A
Total Power Dissipation	T_A=25℃	P_D	150	mW

Typical Characteristics

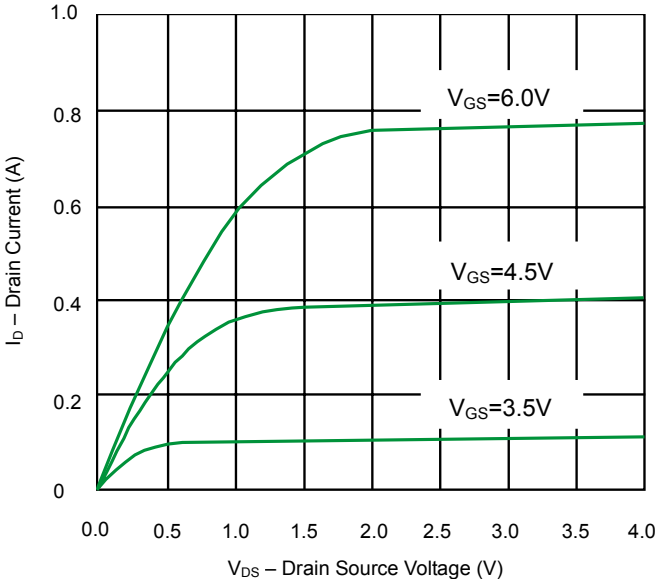


Fig 1. Output Characteristics

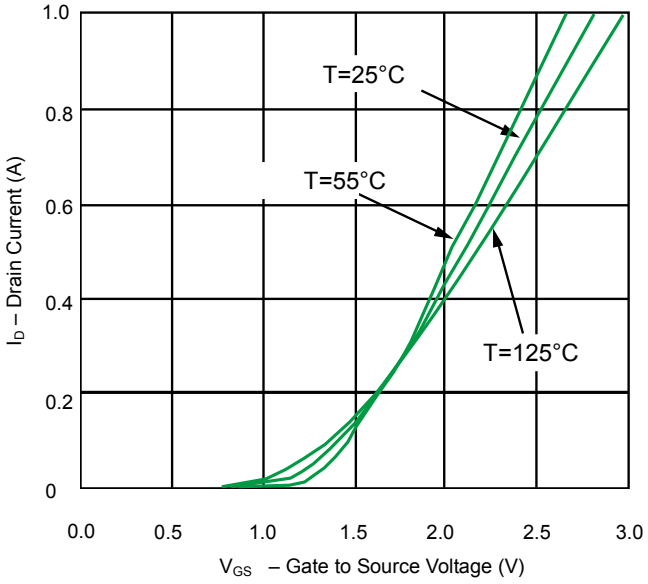


Fig 2. Transfer Characteristics

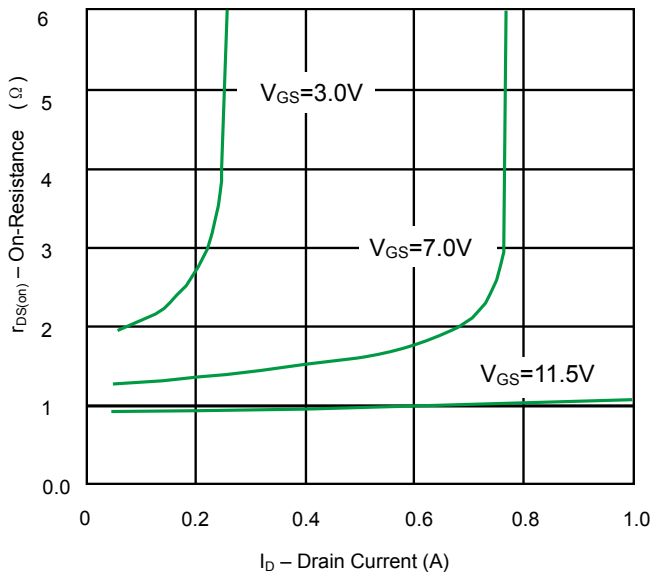


Fig 3. On-Resistance vs. Drain Current

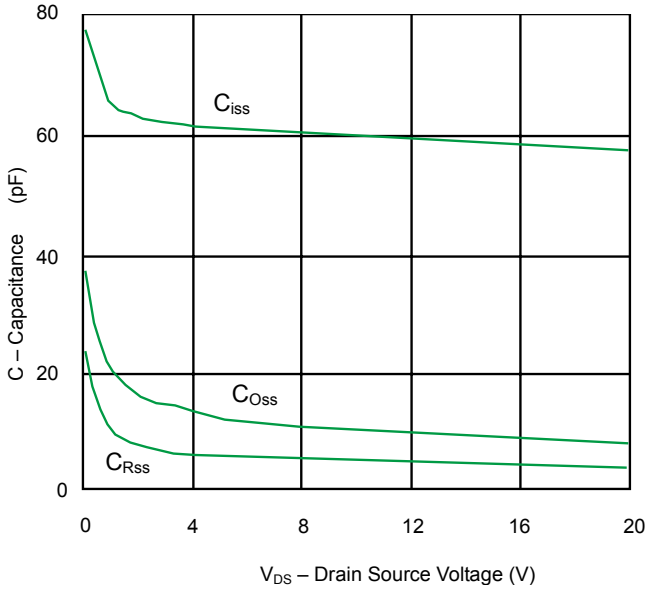
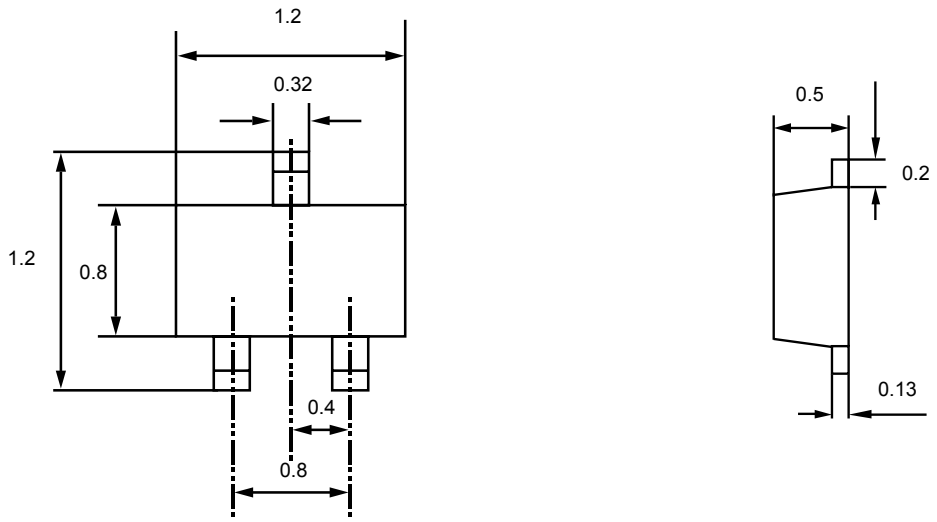


Fig 4. Capacitance

Product dimension

SOT-723 PACKAGE



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