

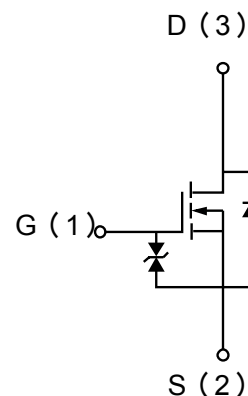
Description

PNM523T703E0-2L1 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 1.3	0.18

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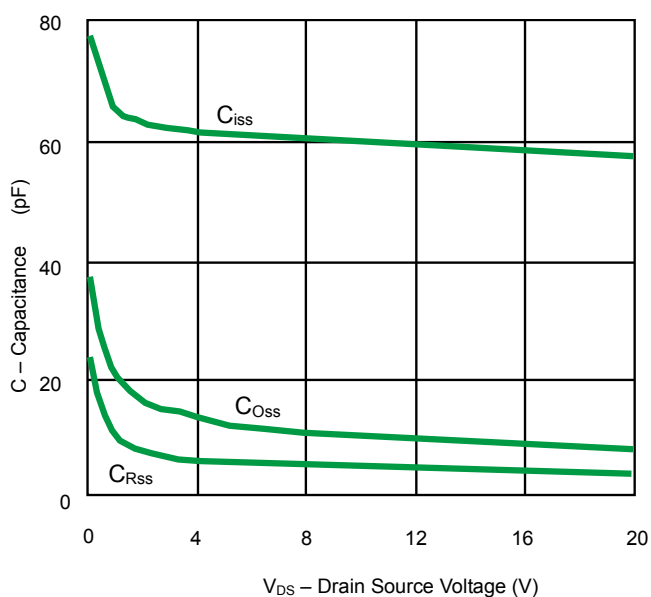
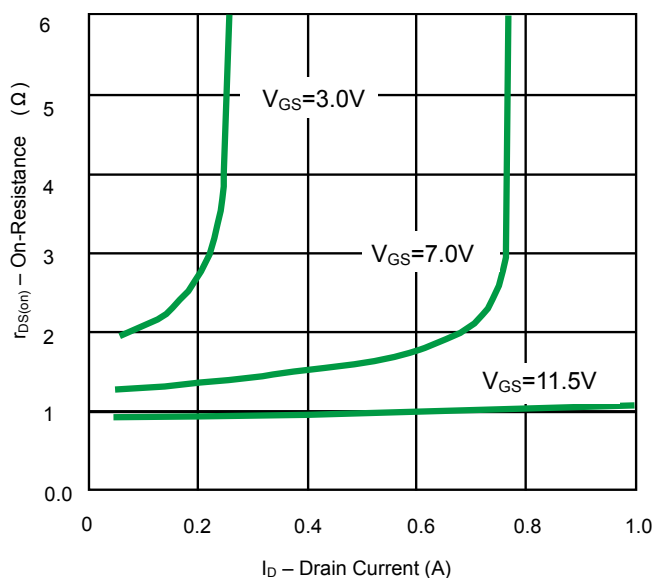
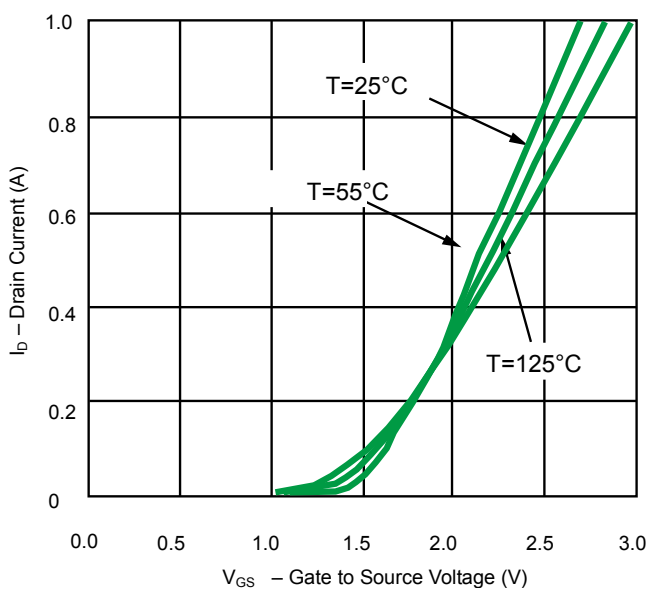
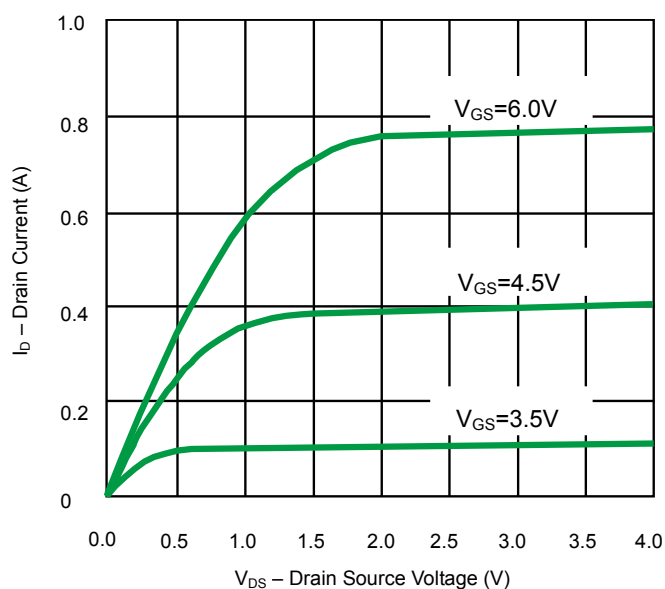
Electrical characteristics per line@25°C (unless otherwise specified)

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	-	-	±10	μA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250μA	0.5	-	1.3	V
Static Drain-Source On-Resistance	R _{DS(ON)}	V _{GS} =5V, I _D =0.05A	-	-	7.5	Ω
		V _{GS} =10V, I _D =0.5A	-	-	7.5	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 Delay Time	t _{d(on)}	V _{DS} =30V, V _{GS} =10V, R _G =25Ω, R _L =150Ω I _D =0.2A	-	-	20	ns
Turn-Off Delay Time	t _{d(off)}		-	-	20	ns

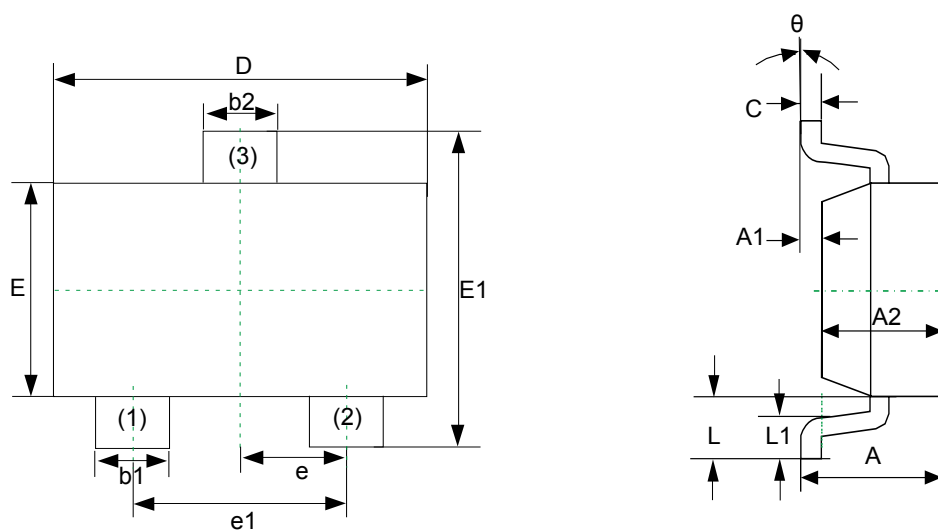
Absolute maximum rating@25°C

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

Typical Characteristics



Product dimension (SOT-523)



Dim	Millimeters		Inches	
	MIN	MAX	MIN	MAX
A	0.700	0.900	0.028	0.035
A1	0.000	0.100	0.000	0.004
A2	0.700	0.800	0.028	0.031
b1	0.150	0.250	0.006	0.010
b2	0.250	0.350	0.010	0.014
c	0.100	0.200	0.004	0.008
D	1.500	1.700	0.059	0.067
E	0.700	0.900	0.028	0.035
E1	1.450	1.750	0.057	0.069
e	0.500TYP		0.020TYP	
e1	0.900	1.100	0.035	0.043
L	0.400REF		0.016REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

Ordering information

Device	Package	Shipping
PNM523T703E0-2L1	SOT-523 (Pb-Free)	3000 / Tape & Reel

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