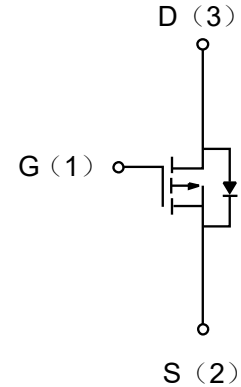


Description

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

MOSFET Product Summary		
$V_{DS}(V)$	$R_{DS(on)}(\Omega)$	$I_D(A)$
-20	0.08 @ $V_{GS}=-4.5V$	-2.8
	0.11 @ $V_{GS}=-2.5V$	

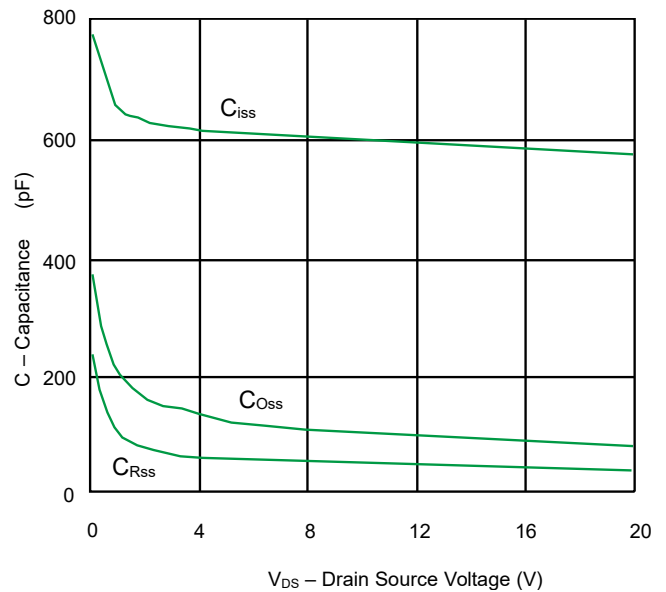
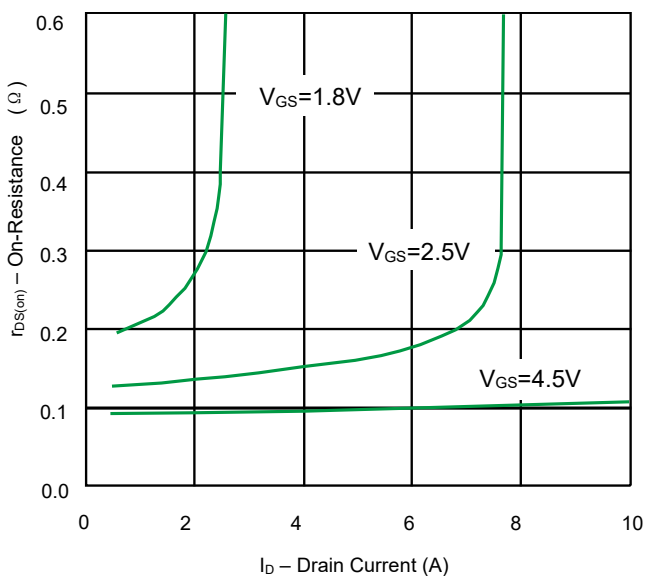
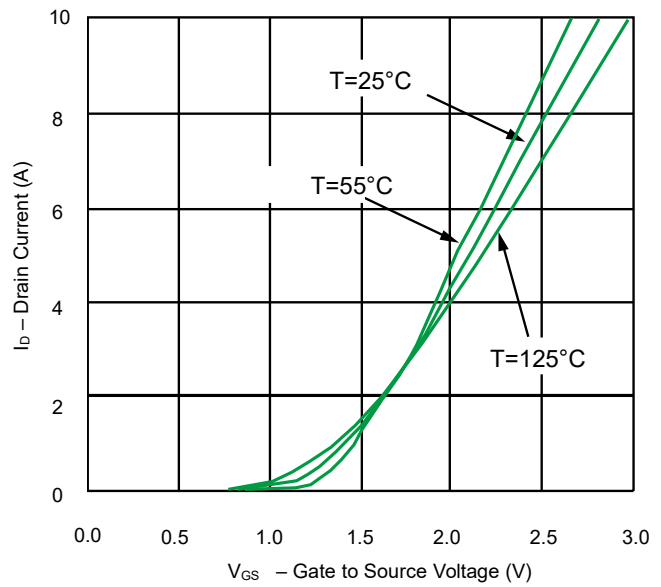
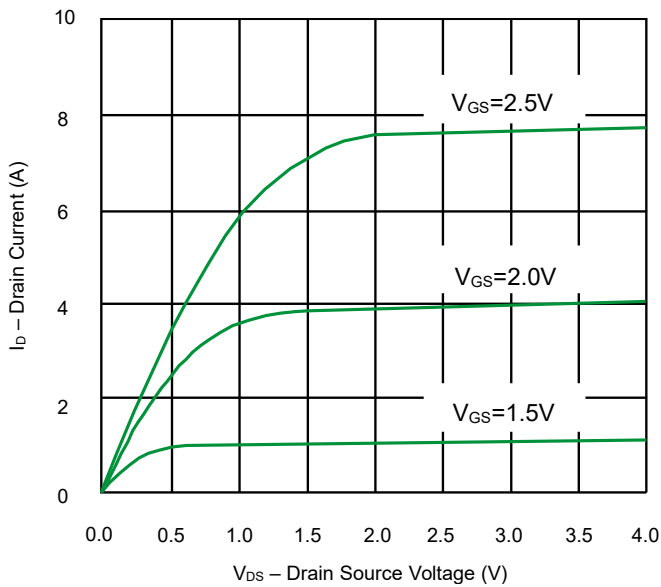

Electrical characteristics per line@25°C (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
OFF CHARACTERISTICS						
Drain-Source Breakdown Voltage	BV_{DSS}	$I_D = -250\mu A, V_{GS} = 0V$	-20	-	-	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS} = -20V, V_{GS} = 0V$	-	-	-1	μA
Gate-Body Leakage Current	I_{GSS}	$V_{DS} = 0V, V_{GS} = \pm 8V$	-	-	± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}, I_D = -250\mu A$	-0.45		-0.9	V
Static Drain-Source On-Resistance	$R_{DS(ON)}$	$V_{GS} = -4.5V, I_D = -2.8A$	-	0.08	0.11	Ω
		$V_{GS} = -2.5V, I_D = -2.0A$	-	0.11	0.15	Ω
Forward Tran conductance	g_{FS}	$V_{GS} = 5V, I_D = 50mA, T_A = 125^\circ C$		6.5		S
DYNAMIC PARAMETERS						
Input Capacitance	C_{ISS}	$V_{GS} = 0V, V_{DS} = 10V,$ $f = 1MHz$	-	360		pF
Output Capacitance	C_{DSS}		-	125		pF
Reverse Transfer Capacitance	C_{RSS}		-	50		pF
SWITCHING PARAMETERS						
Turn-On Delay Time	$t_{d(on)}$	$V_{DD} = -6V, V_{GS} = -4.5V,$ $R_L = 6\Omega, R_G = 6\Omega,$ $I_D = -1A$	-		17	ns
Turn-Off Delay Time	$t_{d(off)}$		-		35	ns

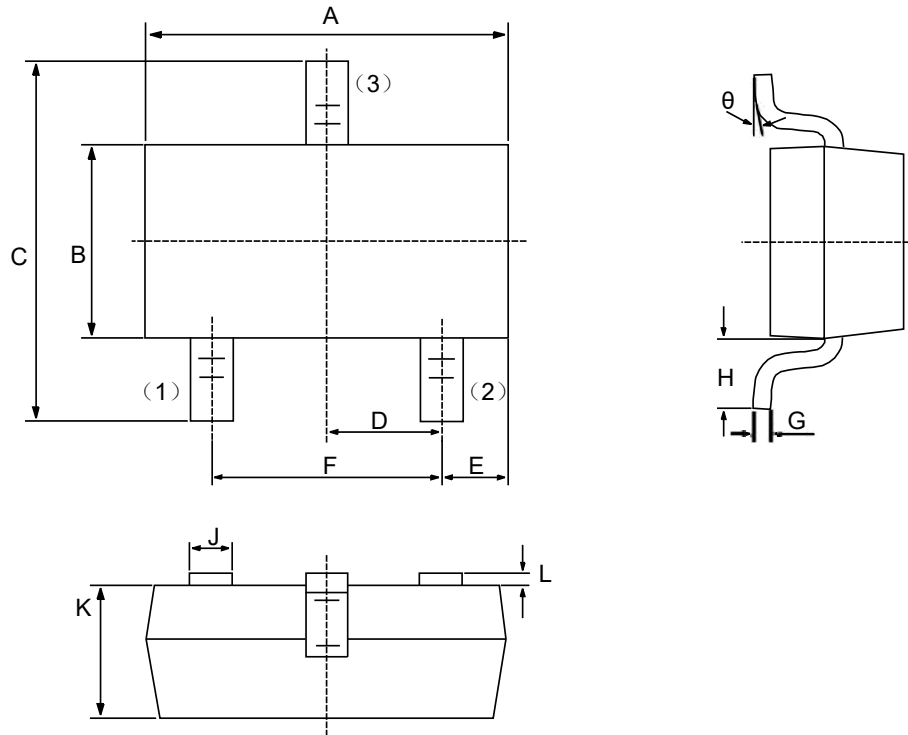
Absolute maximum rating@25°C

Rating		Symbol	Value	Units
Drain-Source Voltage		V_{DS}	-20	V
Gate-Source Voltage		V_{GS}	± 8	V
Drain Current	Continuous	I_D	-2.8	A
	Pulsed	I_D	-8	A
Total Power Dissipation	$T_A=25^\circ\text{C}$	P_D	900	mW
	$T_A=125^\circ\text{C}$	P_D	570	mW

Typical Characteristics

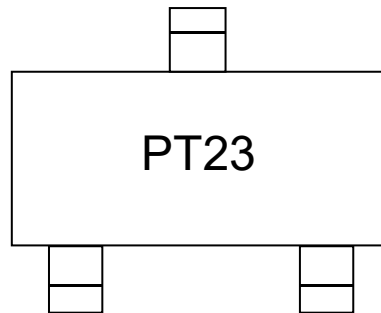


Product dimension(SOT-23)



Dim	Millimeters		Inches	
	MIN	MAX	MIN	MAX
A	2.80	3.00	0.1102	0.1197
B	1.20	1.40	0.0472	0.0551
C	2.10	2.50	0.0830	0.0984
D	0.89	1.02	0.0350	0.0401
E	0.45	0.60	0.0177	0.0236
F	1.78	2.04	0.0701	0.0807
G	0.085	0.177	0.0034	0.0070
H	0.45	0.60	0.0180	0.0236
J	0.37	0.50	0.0150	0.0200
K	0.89	1.11	0.0350	0.0440
L	0.013	0.100	0.0005	0.0040
θ	0°	10°	0°	10°


Marking information



Ordering information

Device	Package	Reel	Shipping
PPMT20V3	SOT-23 (Pb-Free)	7"	3000 / Tape & Reel


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