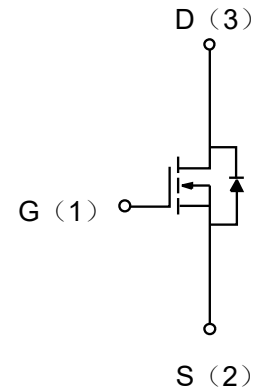


Description

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	0.3@ $V_{GS}=4.5V$	0.6



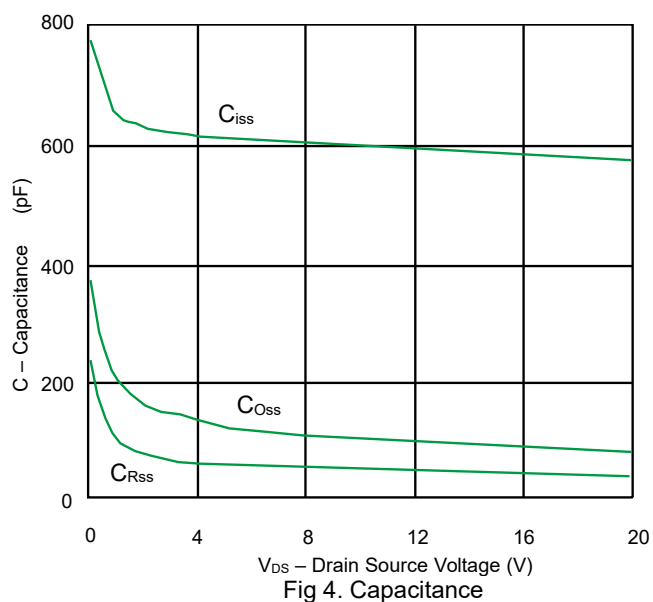
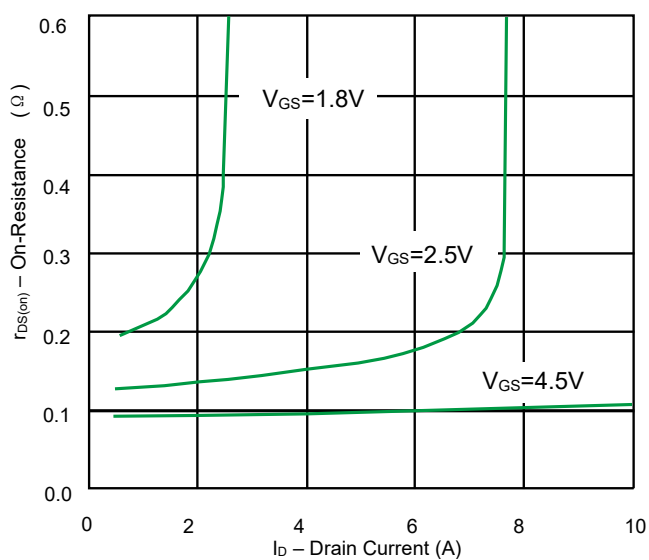
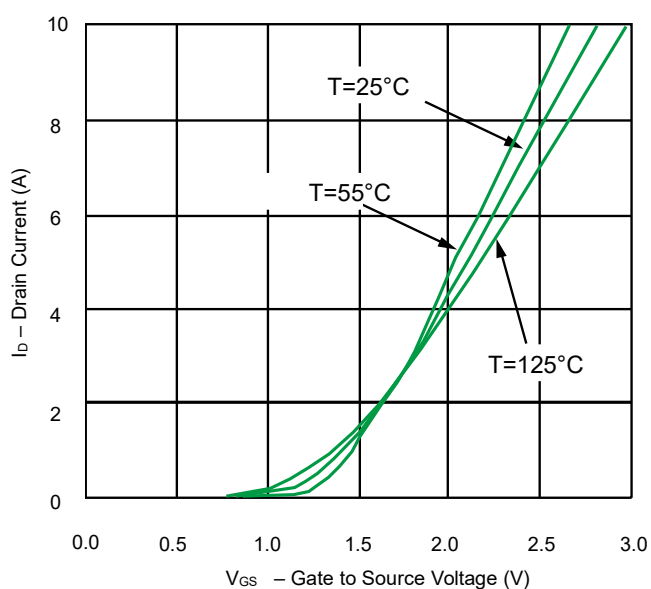
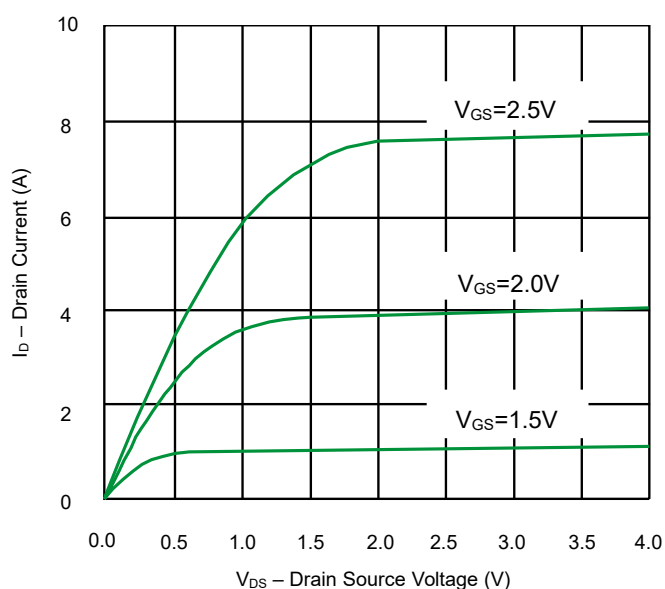
Electrical characteristics per line@25°C (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
OFF CHARACTERISTICS						
Drain-Source Breakdown Voltage	BV _{DSS}	I _D =250μA,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} =±10V	-	-	±10	μA
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250μA	0.5		0.85	V
Static Drain-Source On-Resistance	R _{DS(ON)}	V _{GS} =4.5V, I _D =0.6A	-	0.3	0.35	Ω
		V _{GS} =2.5V, I _D =0.5A	-	0.5	0.55	Ω
		V _{GS} =1.8V, I _D =0.35A	-	0.6	0.85	Ω
DYNAMIC PARAMETERS						
Input Capacitance	C _{ISS}	V _{GS} =0V, V _{DS} =16V, f=1MHz	-	135		pF
Output Capacitance	C _{DSS}		-	23		pF
Reverse Transfer Capacitance	C _{RSS}		-	18		pF
SWITCHING PARAMETERS						
Turn-On Delay Time	t _{d(on)}	V _{DS} =10V, V _{GS} =4.5V, R _G =10Ω, I _D =0.2A	-		15	ns
Turn-Off Delay Time	t _{d(off)}		-		55	ns

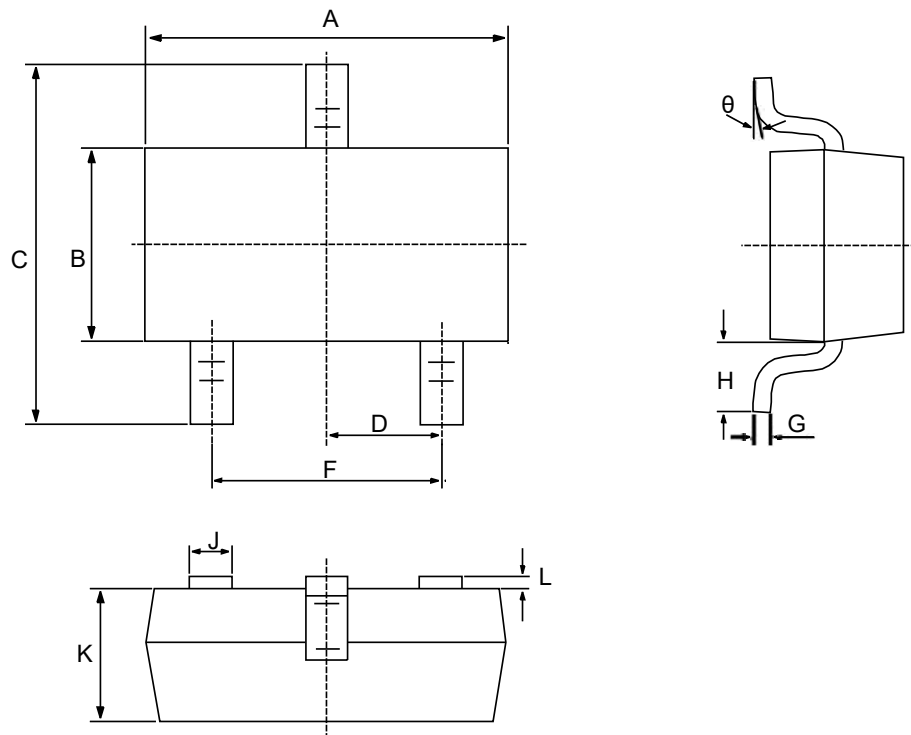
Absolute maximum rating@25°C

Rating		Symbol	Value	Units
Drain-Source Voltage		V_{DS}	20	V
Gate-Source Voltage		V_{GS}	± 12	V
Drain Current	Continuous	I_D	0.6	A
	Pulsed	I_D	3.0	A
Total Power Dissipation	$T_A=25^\circ\text{C}$	P_D	170	mW
	$T_A=125^\circ\text{C}$	P_D	155	mW
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55 to 150	$^\circ\text{C}$

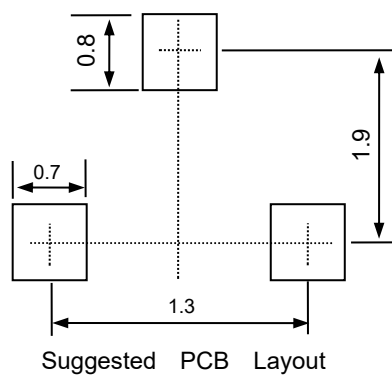
Typical Characteristics




Product dimension (SOT-323)



Dim	Millimeters	
	MIN	MAX
A	1.80	2.20
B	1.15	1.35
C	2.00	2.45
D	0.65BSC	
F	1.20	1.40
G	0.05	0.25
H	0.525REF	
J	0.20	0.40
K	0.80	1.10
L	0.00	0.10
θ	0°	10°




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