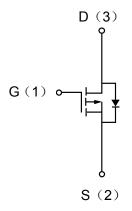




Description

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	-2.0	



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

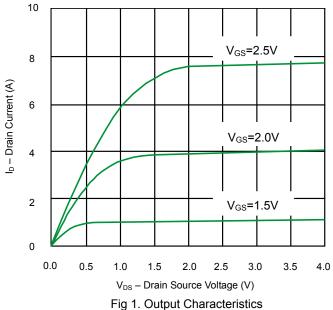
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
OFF CHARACTERISTICS							
Drain-Source Breakdown Voltage	BV _{DSS}	I _D =-250µA,V _{GS} =0V	-20	-	-	V	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-20V,V _{GS} =0V	-	-	-1	μA	
Gate-Body Leakage Current	I _{GSS}	V _{DS} =0V,V _{GS} =±10V	-	-	±100	nA	
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =-250μA	-0.45		-0.9	V	
Ctatia Drain Cauras On Besistanes	R _{DS(ON)}	V _{GS} =-4.5V, I _D =-2.8A	-	0.08	0.11	Ω	
Static Drain-Source On-Resistance		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℃		6.5		S	
DYNAMIC PARAMETERS							
Input Capacitance	C _{ISS}		-	360		pF	
Output Capacitance	C _{DSS}	V _{GS} =0V, V _{DS} =10V, f=1MHz	-	125		pF	
Reverse Transfer Capacitance	C _{RSS}	1- 1WILIZ	-	50		pF	
SWITCHING PARAMETERS							
Turn-On Delay Time	t _{d(on)}	V _{DD} =-6V, V _{GS} =-4.5V,	-		17	ns	
Turn-Off Delay Time	t _{d(off)}	$R_L=6\Omega$, $R_G=6\Omega$, $I_D=-1A$	-		35	ns	

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Absolute maximum rating@25℃

	Rating	Symbol	Value	Units
Drain-Source Voltage		V _{DS}	-20	V
Gate-Source Voltage		V_{GS}	V _{GS} ±8 V	
Drain Current	Continuous	I _D	-2.8	Α
	Pulsed	I _D	-8	Α
Total Power Dissipation	T _A =25℃	P _D	900	mW
	T _A =125℃	P _D	570	mW

Typical Characteristics



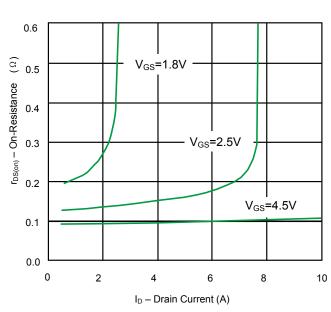


Fig 3. On-Resistance vs. Drain Current

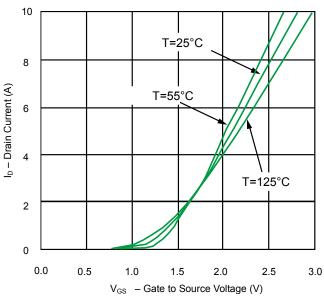


Fig 2. Transfer Characteristics

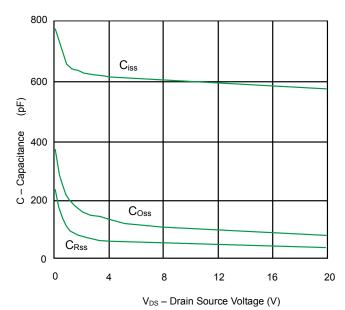
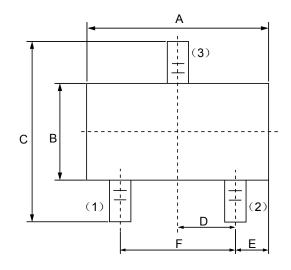
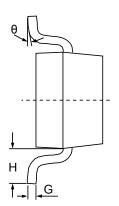
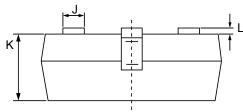


Fig 4. Capacitance

Product dimension(SOT-23)







Dim	Millimeters		Inches		
	MIN	MAX	MIN	MAX	
А	2.80	3.00	0.1102	0.1197	
В	1.20	1.40	0.0472	0.0551	
С	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	
Н	0.45	0.60	0.0180	0.0236	
J	0.37	0.50	0.0150	0.0200	
К	0.89	1.11	0.0350	0.0440	
L	0.013	0.100	0.0005	0.0040	
θ	0°	10°	0°	10°	

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