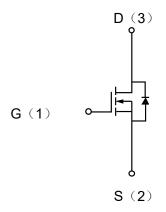


Description

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	0.024@ V _{GS} =4.5V	5.5		



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	IDSS	V _{DS} =16V,V _{GS} =0V	-	-	1	μA	
Gate-Body Leakage Current	Igss	V _{DS} =0V,V _{GS} =±8V	-	-	±100	nA	
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250μA	0.5		1.0	٧	
Static Drain Source On Decistance	Б	V _{GS} =4.5V, I _D =4.5A	-	0.024	0.028	Ω	
Static Drain-Source On-Resistance	R _{DS(ON)}	V _{GS} =2.5V, I _D =2A	-	0.030	0.037	Ω	
DYNAMIC PARAMETERS							
Input Capacitance	C _{ISS}		-	520		pF	
Output Capacitance	C _{DSS}	V _{GS} =0V, V _{DS} =15V, f=1MHz	-	100		pF	
Reverse Transfer Capacitance	Crss	1- 1WILIZ	-	80		pF	
SWITCHING PARAMETERS							
Turn-On Delay Time	t _{d(on)}	t _{d(on)} V _{DS} =10V, V _{GS} =4.5V,			5	ns	
Turn-Off Delay Time			-		40	ns	

Rev.06.3 1 www.prisemi.com

Absolute maximum rating@25℃

Rating		Symbol	Value	Units
Drain-Source Voltage		V _{DS}	20	V
Gate-Source Voltage		V _{GS}	±10	V
Drain Current	Continuous	I _D	5.5	Α
	Pulsed	Ι _D	28	Α
Total Power Dissipation	T _A =25°C	Po	1.4	W
	T _A =70°C	P _D	1	W

Typical Characteristics

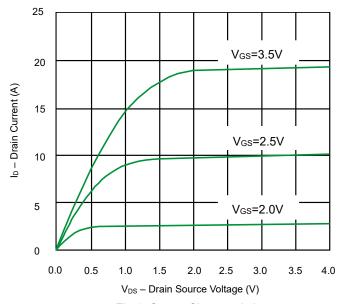


Fig 1. Output Characteristics

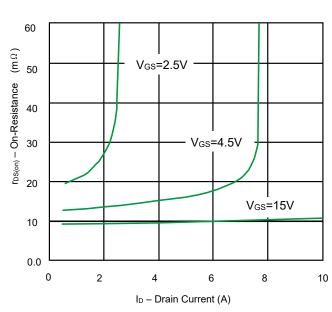


Fig 3. On-Resistance vs. Drain Current

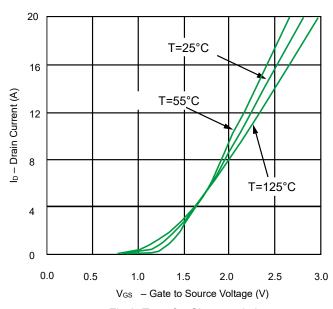


Fig 2. Transfer Characteristics

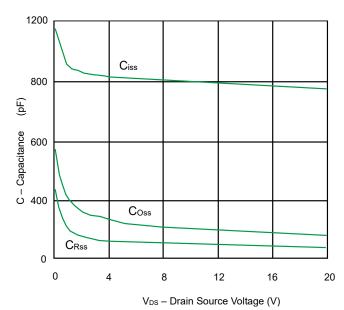
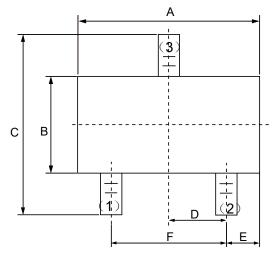
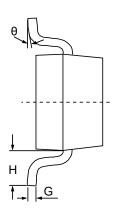
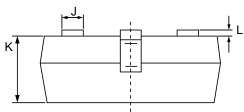


Fig 4. Capacitance

Product dimension(SOT-23)



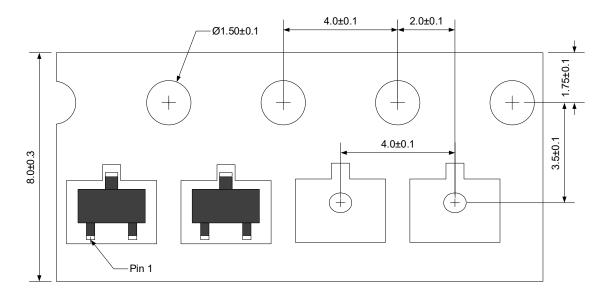




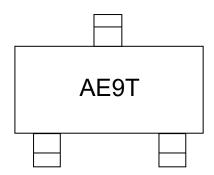
Dim	Millimeters		Inches		
	MIN	MAX	MIN	MAX	
А	2.80	3.00	0.1102	0.1197	
В	1.20	1.40	0.0472	0.0551	
С	2.10	2.50	0.0830	0.0984	
D	0.89	1.02	0.0350	0.0401	
E	0.45	0.60	0.0177	0.0236	
F	1.78	2.04	0.0701	0.0807	
G	0.085	0.177	0.0034	0.0070	
Н	0.45	0.60	0.0180	0.0236	
J	0.37	0.50	0.0150	0.0200	
К	0.89	1.11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

Load With Information





Marking Information



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