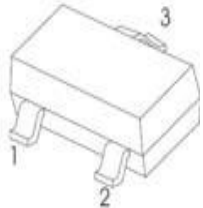
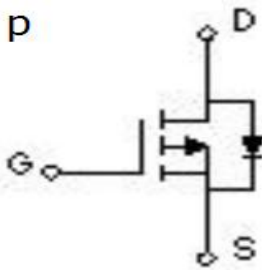
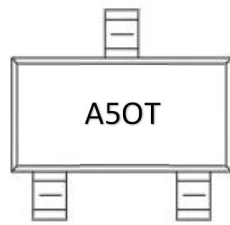
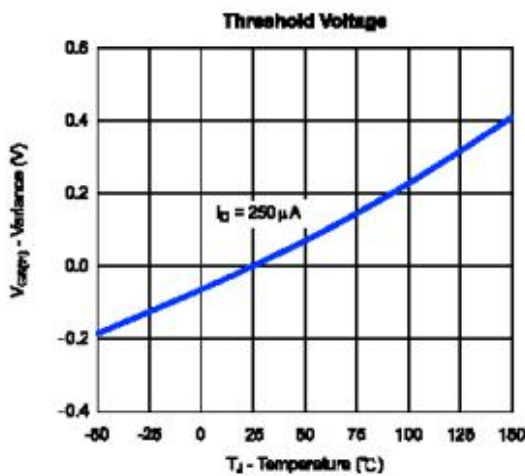
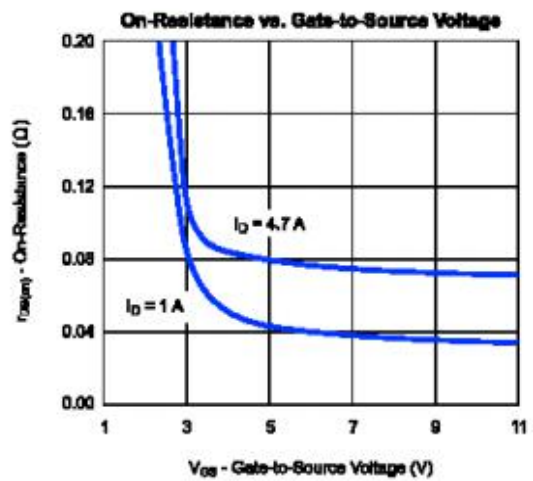
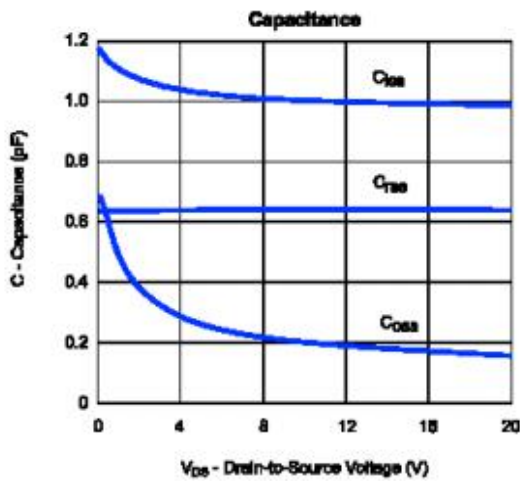
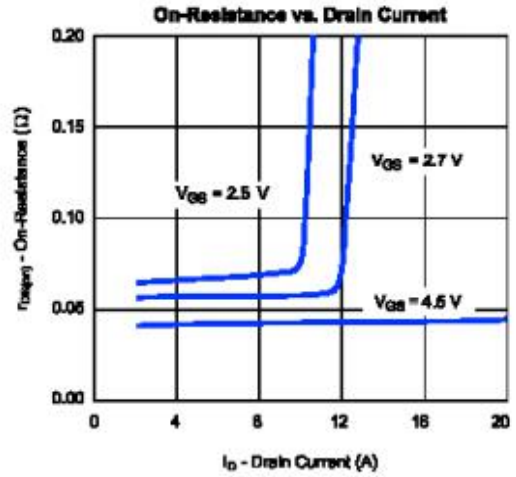
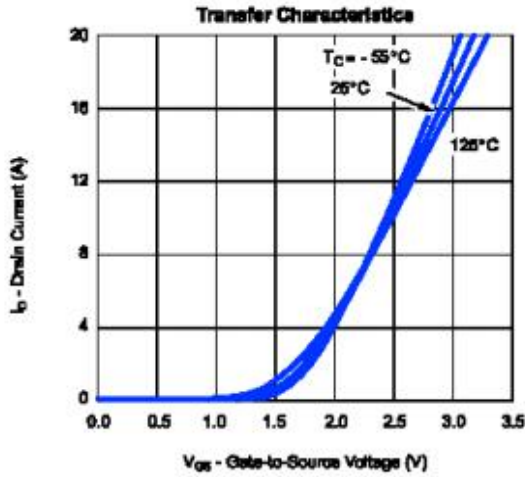


P-Channel 20-V(D-S) MOSFET		SOT-23 Plastic-Encapsulate MOSFETS	
<p align="center"><u>SOT-23</u></p>  <p>1.GATE 2.SOURCE 3.DRAIN</p> <p align="center">Equivalent Circuit</p> 		<p>Features</p> <ul style="list-style-type: none"> ※ TrenchFET Power MOSFET <p>Application</p> <ul style="list-style-type: none"> ※ Load Switch for Portable Devices ※ DC/DC Converter <p>MARKING</p> 	
V(BR)DSS	RDS(on)MAX	ID	
-20 V	80mΩ @-4.5V	-4A	
	110mΩ @-2.5V		
Maximum ratings (Ta=25°C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Drain-Source Voltage	VDS	-20	V
Gate-Source Voltage	VGS	±12	
Continuous Drain Current	ID	-4	A
Pulsed Diode Curren	IDM	-20	
Continuous Source-Drain Current(Diode Conduction)	IS	-0.72	
Power Dissipation	PD	1.1	W
Thermal Resistance from Junction to Ambient (t≤5s)	RθJA	150	°C/W
Operating Junction	TJ	150	°C
Storage Temperature	TSTG	-55~+150	°C

MOSFET ELECTRICAL CHARACTERISTICS						
Static Electrical Characteristics (Ta = 25 °C Unless Otherwise Noted)						
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Static						
Drain-source breakdown voltage	V(BR)DSS	VGS = 0V, ID = -250µA	-20			V
Gate-source threshold voltage	VGS(th)	VDS = VGS, ID = -250µA	-0.5	-0.7	-1	V
Gate-source leakage	IGSS	VDS = 0V, VGS = ±16V		±18	±100	nA
Zero gate voltage drain current	IDSS	VDS = -20V, VGS = 0V			-1	µA
Drain-source on-state resistancea	RDS(on)	VGS = -4.5V, ID = -3.2A		43	65	mΩ
		VGS = -2.5V, ID = -2A		56	90	mΩ
Forward transconductancea	gfs	VDS = -4.5V, ID = -4A		4		S
Diode forward voltage	VSD	IS = -1.25A, VGS = 0V		-0.8	-1.3	V
Dynamic						
Input capacitance	Ciss	VDS = -10V, VGS = 0V, f = 1MHz		415		pF
Output capacitance	Coss			223		pF
Reverse transfer capacitanceb	Crss			87		pF
Total gate charge	Qg	VDS = -10V, VGS = -4.5V, ID = -4.5A		24	36	nC
Gate-source charge	Qgs			18		nC
Gate-drain charge	Qgd			2.7		nC
Gate resistance	Rg	f = 1MHz		6.0		Ω
Switchingb						
Turn-on delay time	td(on)	VDD = -10V, RL = 10Ω, ID ≈ -1A, VGEN = -4.5V, Rg = 6Ω		22	35	ns
Rise time	tr			35	60	ns
Turn-off delay time	td(off)			45	70	ns
Fall time	tf			25	40	ns
Drain-source body diode characteristics						
Continuous Source-Drain Diode Current	IS	Tc = 25°C			-1.3	A
Pulsed Diode forward Current	ISM				-20	A
Note :						
1. Repetitive Rating : Pulse width limited by maximum junction temperature.						
2. Surface Mounted on FR4 Board, t < 5 sec.						
3. Pulse Test : Pulse Width ≤ 300µs, Duty Cycle ≤ 2%.						
4. Guaranteed by design, not subject to production testing.						

TYPICAL ELECTRICAL AND THERMAL CHARACTERISTICS



单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)