



YOUSHANG SEMICONDUCTOR

设计研发新型功率器件

各类小信号开关

中低压及高压大电流等场效应管

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企业微信二维码



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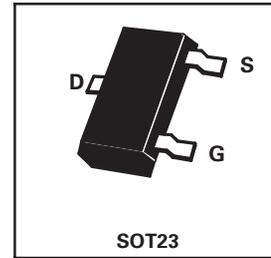
MODE VERTICAL DMOS FET

FEATURES

- * $R_{DS(on)} = 5\Omega$
- * 60 Volt V_{DS}

COMPLEMENTARY TYPE - ZVP3306F

PARTMARKING DETAIL - MC



ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Drain-Source Voltage	V_{DS}	60	V
Continuous Drain Current at $T_{amb}=25^{\circ}C$	I_D	150	mA
Pulsed Drain Current	I_{DM}	3	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	330	mW
Operating and Storage Temperature Range	$T_j:T_{stg}$	-55 to +150	$^{\circ}C$

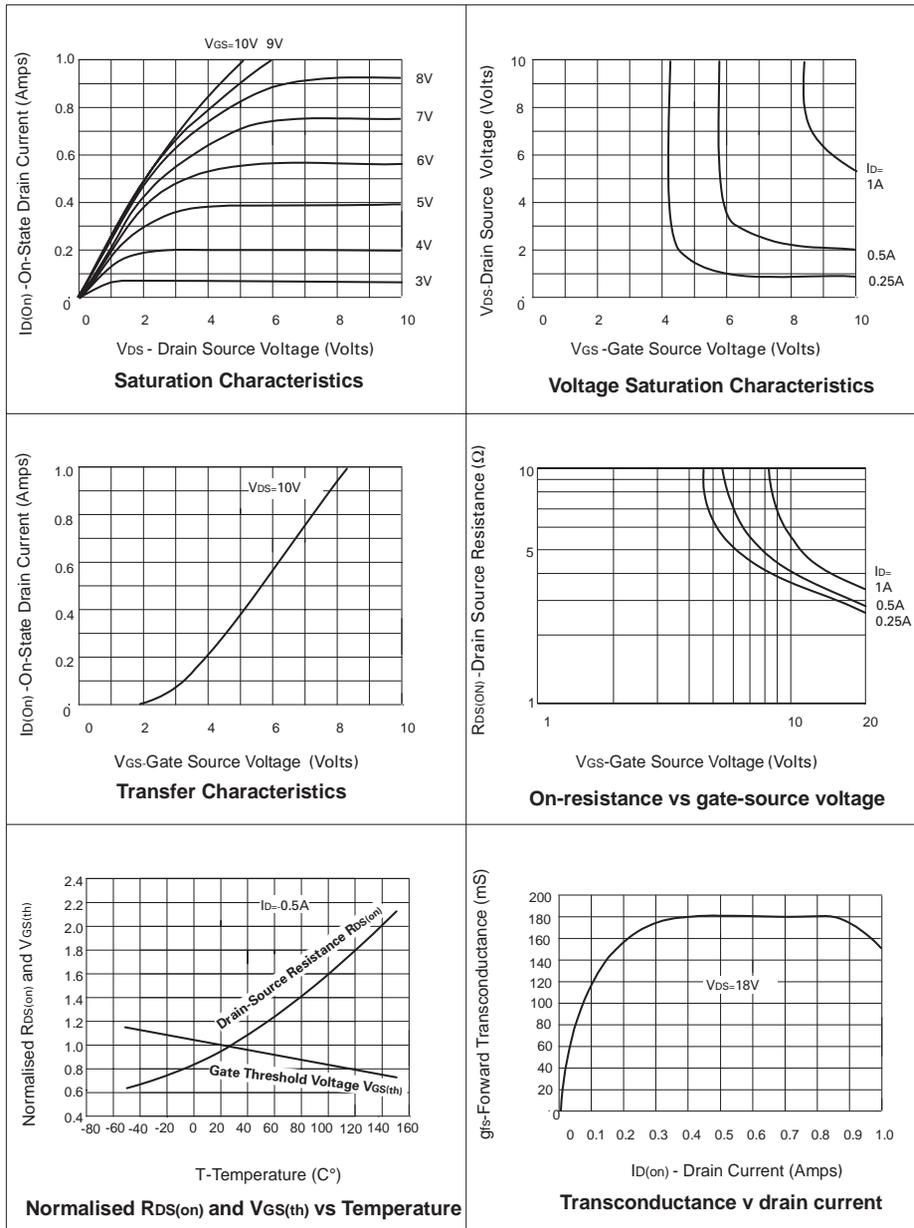
ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$ unless otherwise stated).

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Drain-Source Breakdown Voltage	BV_{DSS}	60		V	$I_D=1mA, V_{GS}=0V$
Gate-Source Threshold Voltage	$V_{GS(th)}$	0.8	2.4	V	$I_D=1mA, V_{DS}=V_{GS}$
Gate-Body Leakage	I_{GSS}		20	nA	$V_{GS}=\pm 20V, V_{DS}=0V$
Zero Gate Voltage Drain Current	I_{DSS}		0.5 50	μA μA	$V_{DS}=60V, V_{GS}=0V$ $V_{DS}=48V, V_{GS}=0V, T=125^{\circ}C(2)$
On-State Drain Current(1)	$I_{D(on)}$	750		mA	$V_{DS}=18V, V_{GS}=10V$
Static Drain-Source On-State Resistance (1)	$R_{DS(on)}$		5	Ω	$V_{GS}=10V, I_D=500mA$
Forward Transconductance (1)(2)	g_{fs}	150		mS	$V_{DS}=18V, I_D=500mA$
Input Capacitance (2)	C_{iss}		35	pF	$V_{DS}=18V, V_{GS}=0V, f=1MHz$
Common Source Output Capacitance (2)	C_{oss}		25	pF	
Reverse Transfer Capacitance (2)	C_{rss}		8	pF	
Turn-On Delay Time (2)(3)	$t_{d(on)}$	3 typ	5	ns	$V_{DD}=18V, I_D=500mA$
Rise Time (2)(3)	t_r	4 typ	7	ns	
Turn-Off Delay Time (2)(3)	$t_{d(off)}$	4 typ	6	ns	
Fall Time (2)(3)	t_f	5 typ	8	ns	

(1) Measured under pulsed conditions. Width=300 μs . Duty cycle $\leq 2\%$ (2) Sample test.

(3) Switching times measured with 50 Ω source impedance and <5ns rise time on a pulse generator
Spice parameter data is available upon request for this device

TYPICAL CHARACTERISTICS



TYPICAL CHARACTERISTICS

