

ZVP3306A

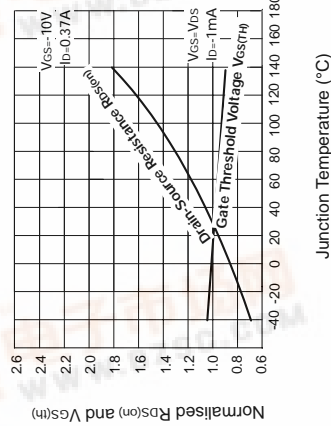
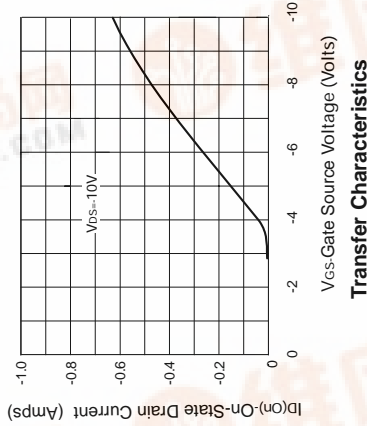
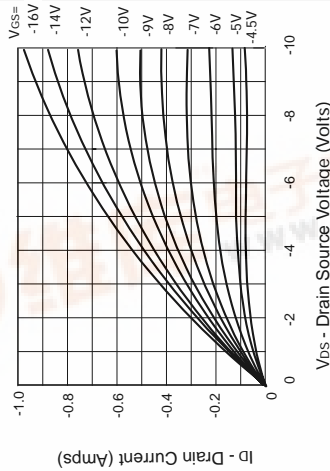
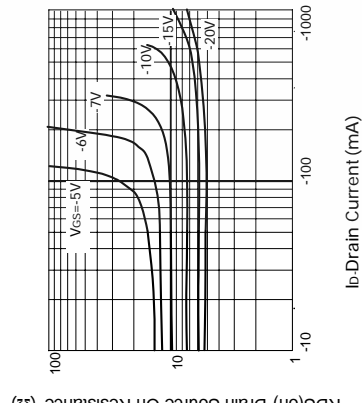
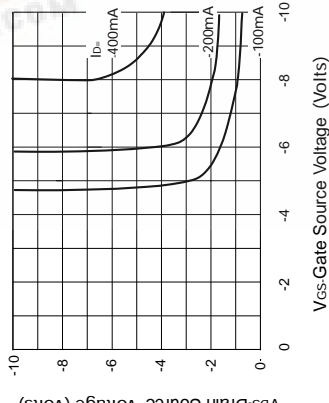
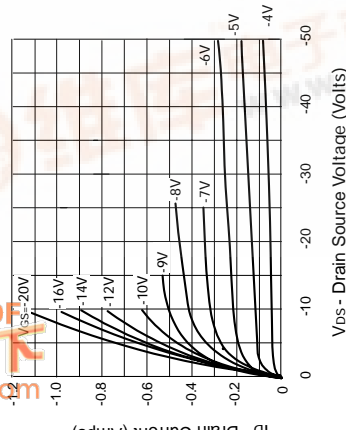
P-CHANNEL ENHANCEMENT MODE VERTICAL DMOS FET

ISSUE 2 – MARCH 94

FEATURES

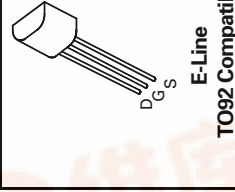
- * 60 Volt V_{DS}
- * $R_{DS(on)}=14\Omega$

TYPICAL CHARACTERISTICS



On-resistance vs Drain Current

Normalized $R_{DS(on)}$ and $V_{GS(th)}$ vs Temperature



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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	-160	mA
Pulsed Drain Current	I_{DM}	-1.6	A
Gate Source Voltage	V_{GS}	± 20	V
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	625	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	$V_{GS(th)}$	-1.5	-3.5	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)	$I_D(on)$		-400	mA	$V_{DS} = -18V, V_{GS} = -10V$
Static Drain-Source On-State Resistance (1)	$R_{DS(on)}$		14	Ω	$V_{GS} = -10V, I_D = -200mA$
Forward Transconductance (1)(2)	g_{fs}	60		mS	$V_{DS} = -18V, I_D = -200mA$
Input Capacitance (2)	C_{iss}		50	pF	
Common Source Output Capacitance (2)	C_{oss}		25	pF	$V_{DS} = -18V, V_{GS} = 0V, f = 1MHz$
Reverse Transfer Capacitance (2)	C_{rss}		8	pF	
Turn-On Delay Time (2)(3)	$t_{d(on)}$		8	ns	
Rise Time (2)(3)	t_r		8	ns	
Turn-Off Delay Time (2)(3)	$t_{d(off)}$		8	ns	$V_{DD} = -18V, I_D = -200mA$
Fall Time (2)(3)	t_f		8	ns	

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

(2) Sample test.

查询ZVP3306供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货

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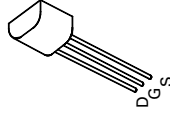
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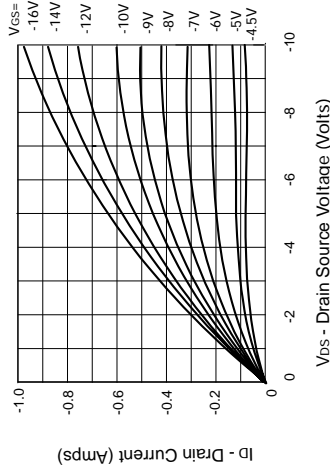
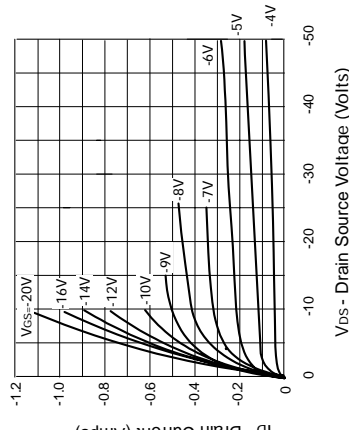
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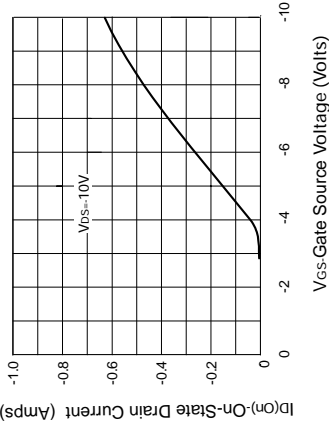
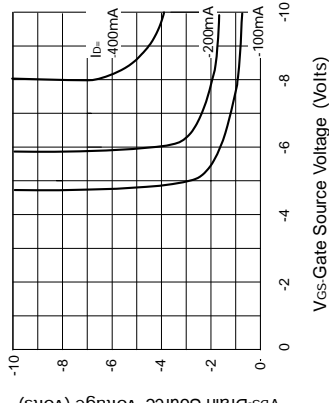
E-Line
TO92 Compatible

TYPICAL CHARACTERISTICS



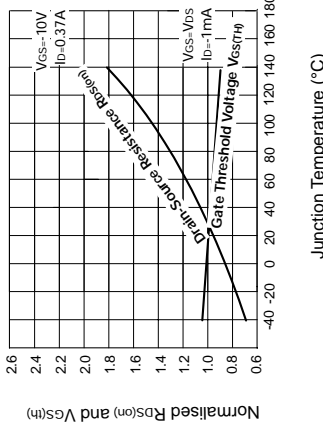
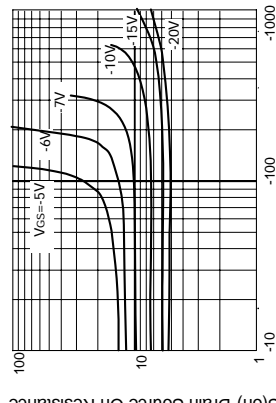
Output Characteristics

Saturation Characteristics



Voltage Saturation Characteristics

Transfer Characteristics



On-resistance vs Drain Current

Normalized $R_{DS(on)}$ and $V_{GS(th)}$ vs Temperature

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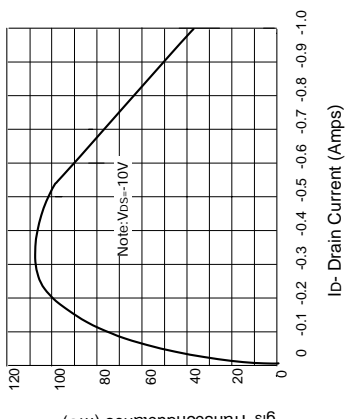
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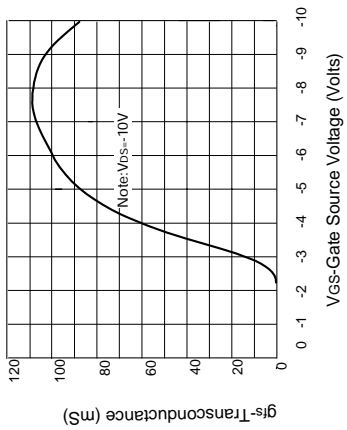
(2) Sample test.

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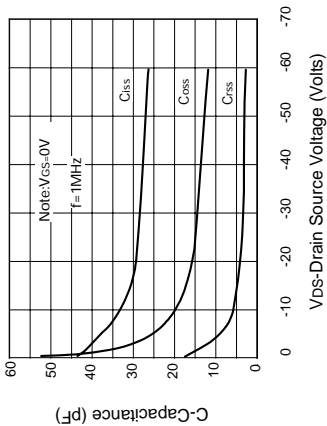
TYPICAL CHARACTERISTICS



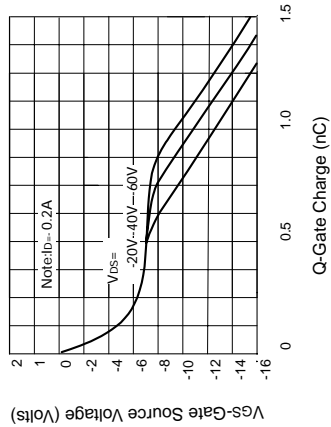
Transconductance v drain current



Transconductance v gate-source voltage



Capacitance v drain-source voltage



Gate charge v gate-source voltage