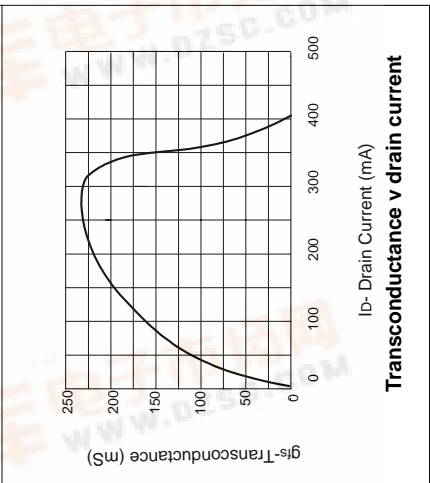
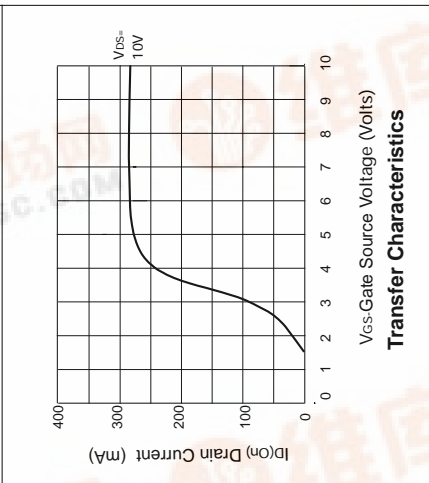
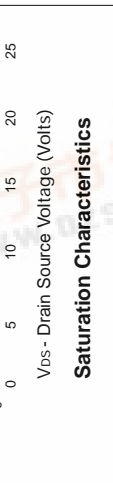
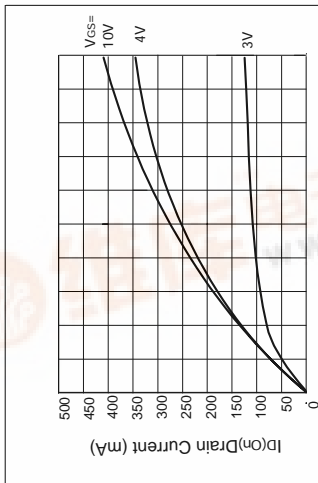


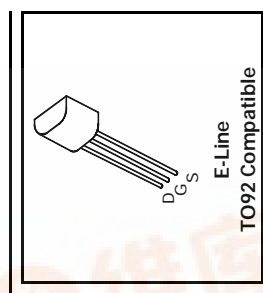


ZVN2535A

TYPICAL CHARACTERISTICS



ZVN2535A



N-CHANNEL ENHANCEMENT MODE VERTICAL DMOS FET
ISSUE 2 - MARCH 94
FEATURES
 * 350 Volt V_{DS}
 R_{DS(on)}=35Ω

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Drain-Source Voltage	V _{DS}	350	V
Continuous Drain Current at T _{amb} =25°C	I _D	90	mA
Pulsed Drain Current	I _{DM}	1	A
Gate Source Voltage	V _{GS}	± 20	V
Power Dissipation at T _{amb} =25°C	P _{Tot}	700	mW
Operating and Storage Temperature Range	T _j , T _{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (at T_{amb} = 25°C unless otherwise stated).

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Drain-Source Breakdown Voltage	BV _{DSS}	350		V	I _D =1mA, V _{GS} =0V
Gate-Source Threshold Voltage	V _{GS(th)}	1	3	V	I _D =1mA, V _{DS} =V _{GS}
Gate-Body Leakage	I _{GSS}		20	nA	V _{GS} =± 20V, V _{DS} =0V
Zero Gate Voltage Drain Current	I _{DSS}		10 400	μA	V _{DS} =350V, V _{GS} =0V V _{DS} =280V, V _{GS} =0V, T=125°C(2)
On-State Drain Current(1)	I _{D(on)}	250		mA	V _{DS} =25V, V _{GS} =10V
Static Drain-Source On-State Resistance (1)	R _{DS(on)}		35	Ω	V _{GS} =10V, I _D =100mA
Forward Transconductance (1)(2)	g _{fs}	100		mS	V _{DS} =25V, I _D =100mA
Input Capacitance (2)	C _{iss}		70	pF	V _{DS} =25 V, V _{GS} =0V, f=1MHz
Common Source Output Capacitance (2)	C _{oss}		10	pF	
Reverse Transfer Capacitance (2)	C _{rss}		4	pF	
Turn-On Delay Time (2)(3)	t _{d(on)}		7	ns	
Rise Time (2)(3)	t _r		7	ns	
Turn-Off Delay Time (2)(3)	t _{d(off)}		16	ns	
Fall Time (2)(3)	t _f		10	ns	V _{DD} =25V, I _D =100mA

查询ZVN2535供应商

捷多邦, 专业PCB打样工厂, 24小时加急出货

Measured under pulsed conditions. Width=300μs. Duty cycle ≤2%

N-CHANNEL ENHANCEMENT MODE VERTICAL DMOS FET

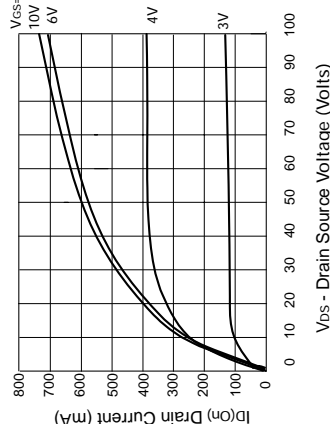
ISSUE 2 – MARCH 94

FEATURES

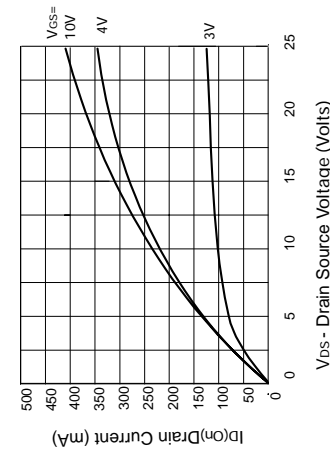
- * 350 Volt V_{DS}
- $R_{DS(on)}=35\Omega$

ZVN2535A

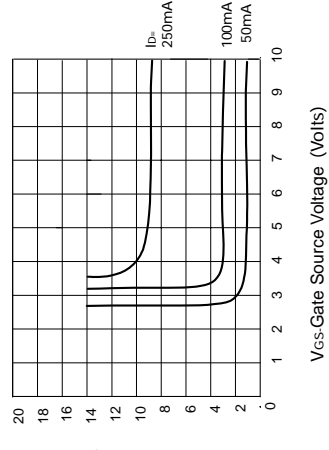
TYPICAL CHARACTERISTICS



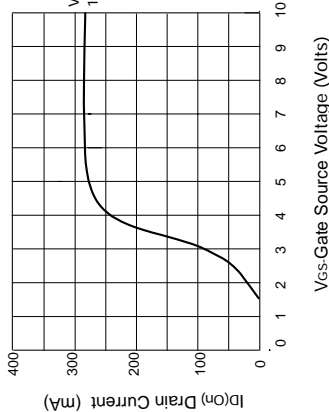
Output Characteristics



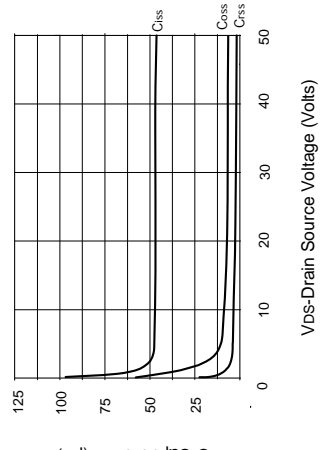
Saturation Characteristics



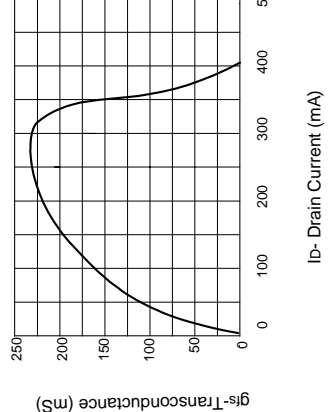
Voltage Saturation Characteristics



Transfer Characteristics

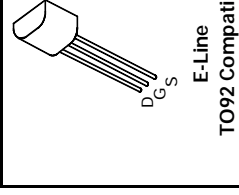


Capacitance v drain-source voltage



Transconductance v drain current

ZVN2535A



ABSOLUTE MAXIMUM RATINGS.

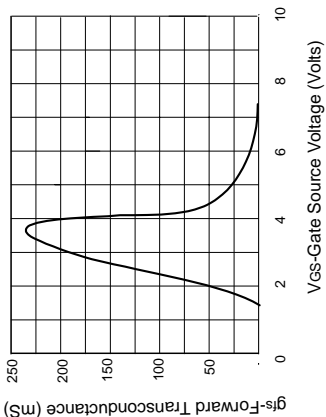
PARAMETER	SYMBOL	VALUE	UNIT
Drain-Source Voltage	V_{DS}	350	V
Continuous Drain Current at $T_{amb}=25^{\circ}C$	I_D	90	mA
Pulsed Drain Current	I_{DM}	1	A
Gate Source Voltage	V_{GS}	± 20	V
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{Tot}	700	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55 to +150	$^{\circ}C$

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

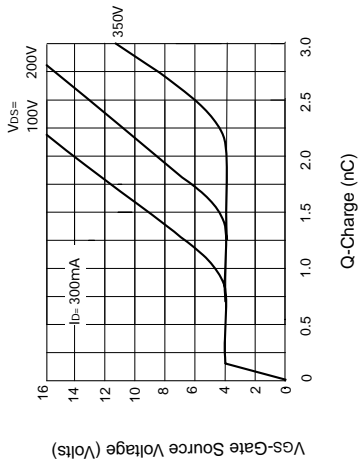
PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Drain-Source Breakdown Voltage	BV_{DSS}	350		V	$I_D=1mA, V_{GS}=0V$
Gate-Source Threshold Voltage	$V_{GS(th)}$	1	3	V	$I_D=1mA, V_{DS}=V_{GS}$
Gate-Body Leakage	I_{GSS}		20	nA	$V_{GS}=\pm 20V, V_{DS}=0V$
Zero Gate Voltage Drain Current	I_{DSS}		10 400	μA μA	$V_{DS}=350V, V_{GS}=0V$ $V_{DS}=280V, V_{GS}=0V,$ $T=125^{\circ}C(2)$
On-State Drain Current(1)	$I_{D(on)}$	250		mA	$V_{DS}=25V, V_{GS}=10V$
Static Drain-Source On-State Resistance (1)	$R_{DS(on)}$		35	Ω	$V_{GS}=10V, I_D=100mA$
Forward Transconductance (1)(2)	g_{fs}	100		mS	$V_{DS}=25V, I_D=100mA$
Input Capacitance (2)	C_{iss}		70	pF	
Common Source Output Capacitance (2)	C_{oss}		10	pF	$V_{DS}=25V, V_{GS}=0V, f=1MHz$
Reverse Transfer Capacitance (2)	C_{rss}		4	pF	
Turn-On Delay Time (2)(3)	$t_{d(on)}$		7	ns	
Rise Time (2)(3)	t_r		7	ns	$V_{DD}=25V, I_D=100mA$
Turn-Off Delay Time (2)(3)	$t_{d(off)}$		16	ns	
Fall Time (2)(3)	t_f		10	ns	

ZVN2535A

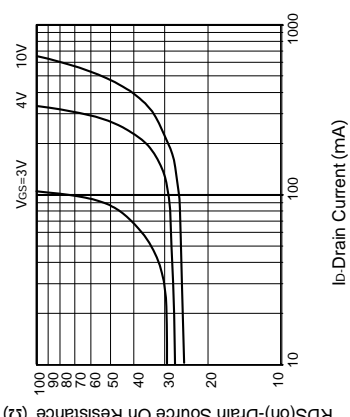
TYPICAL CHARACTERISTICS



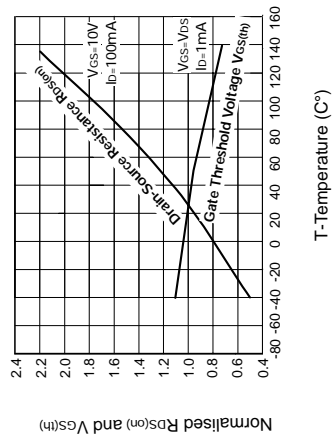
Transconductance v gate-source voltage



Gate charge v gate-source voltage



On-resistance v drain current



Normalised Rds(on) and Vgs(th) vs Temperature