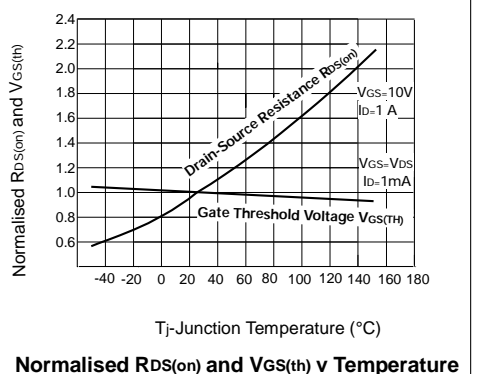
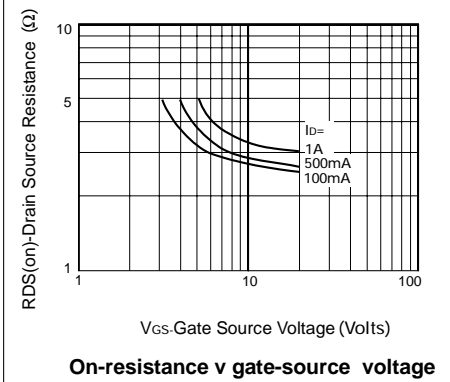
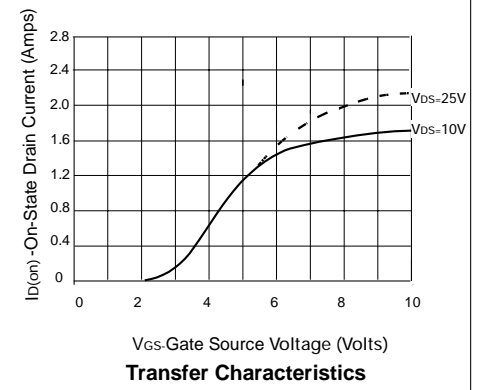
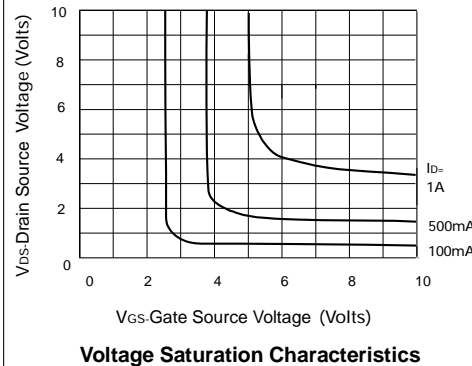
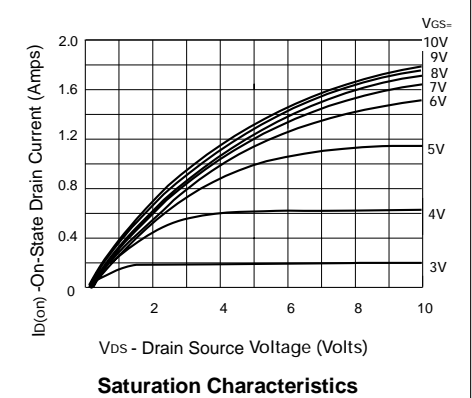
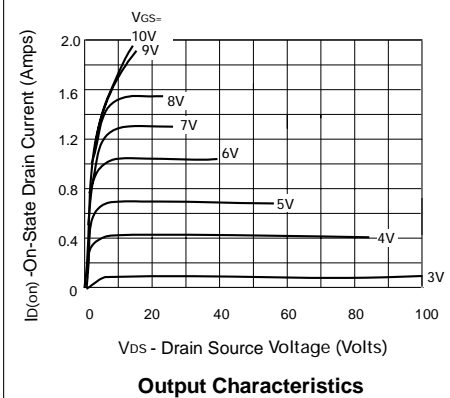
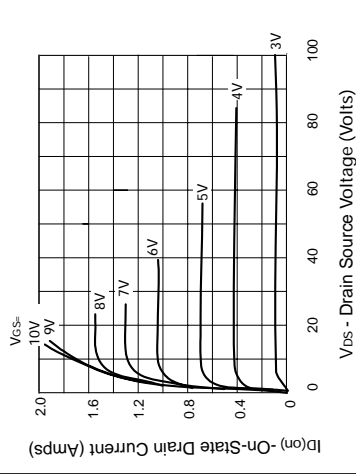


TYPICAL CHARACTERISTICS

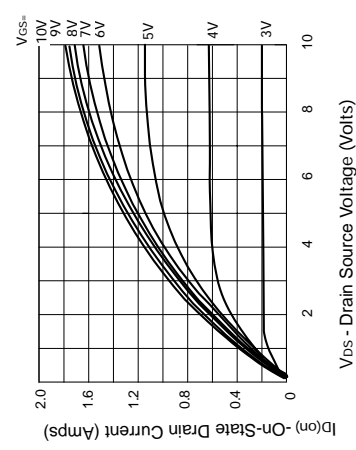


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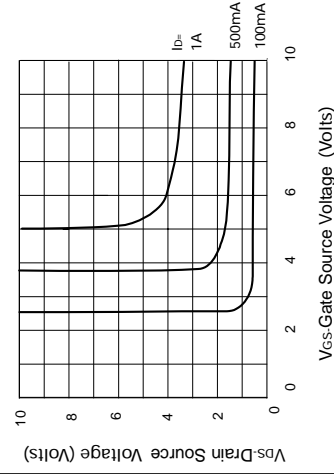
TYPICAL CHARACTERISTICS



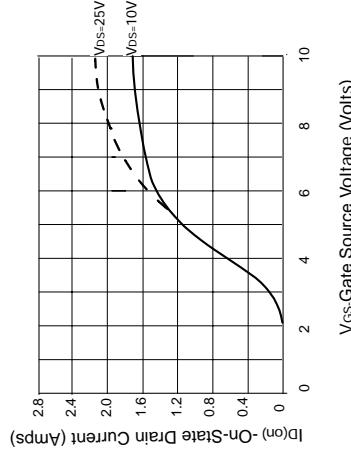
Output Characteristics



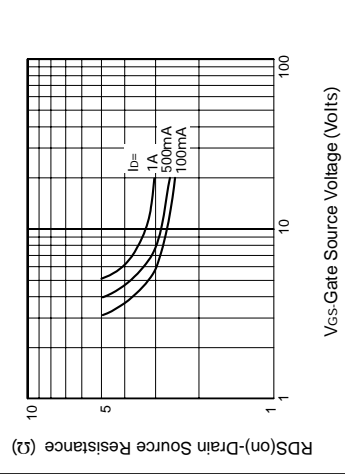
Saturation Characteristics



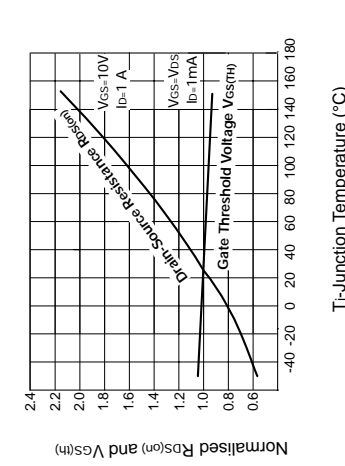
Voltage Saturation Characteristics



Transfer Characteristics



On-resistance v gate-source voltage



Normalised $R_{DS(on)}$ and $V_{GS(th)}$ v Temperature

N-CHANNEL ENHANCEMENT MODE VERTICAL DMOS FET

ISSUE 2 – MARCH 94

FEATURES

- * 100 Volt V_{DS}
- * $R_{DS(on)} = 4\Omega$

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL
Drain-Source Voltage	BV_{DSS}
Continuous Drain Current at $T_{amb}=25^{\circ}C$	I_{DSS}
Pulsed Drain Current	I_{DSS}
Gate Source Voltage	$V_{GS(th)}$
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{DSS}
Operating and Storage Temperature Range	T_{DSS}

ELECTRICAL CHARACTERISTICS

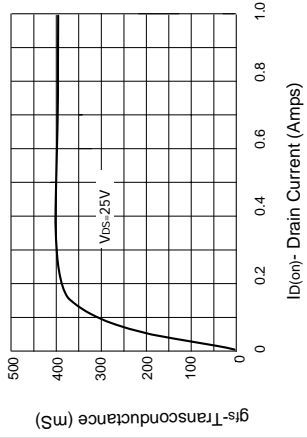
PARAMETER	SYMBOL
Drain-Source Breakdown Voltage	BV_{DSS}
Gate-Source Threshold Voltage	$V_{GS(th)}$
Gate-Body Leakage Current	I_{GSS}
Zero Gate Voltage Drain Current	I_{DSS}
On-State Drain Current(1)	$I_{D(on)}$
Static Drain-Source On-State Resistance (1)	$R_{DS(on)}$
Forward Transconductance (1)(2)	g_{fs}
Input Capacitance (2)	C_{iss}
Common Source Output Capacitance (2)	C_{oss}
Reverse Transfer Capacitance (2)	C_{riss}
Turn-On Delay Time (2)(3)	$t_{d(on)}$
Rise Time (2)(3)	t_r
Turn-Off Delay Time (2)(3)	$t_{d(off)}$
Fall Time (2)(3)	t_f

(1) Measured under pulsed conditions. $V_{GS} = 10V$, $V_{DS} = 10V$, $I_{D(on)} = 1A$, $f = 1kHz$.
 (2) Sample test.

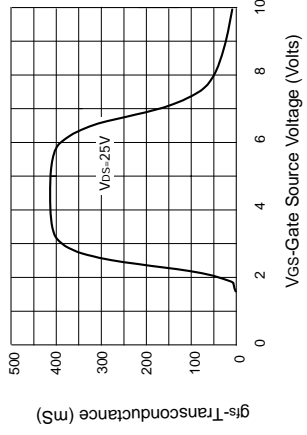
Switching times measured with 50 Ω source and 50 Ω load.

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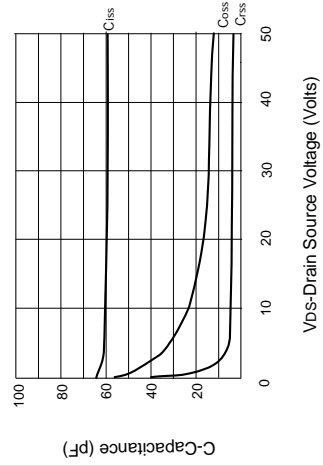
TYPICAL CHARACTERISTICS



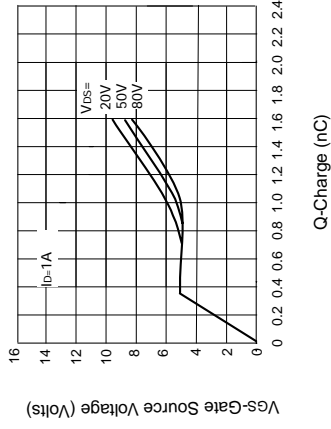
Transconductance v drain current



Transconductance v gate-source voltage





Capacitance v drain-source voltage



Gate charge v gate-source voltage

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