

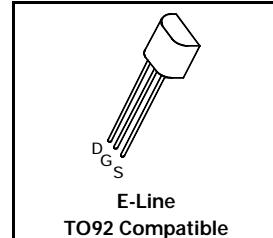
# N-CHANNEL ENHANCEMENT MODE VERTICAL DMOS FET

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## FEATURES

- \* 100 Volt  $V_{DS}$
- \*  $R_{DS(on)} = 1.5\Omega$
- \* Spice model available



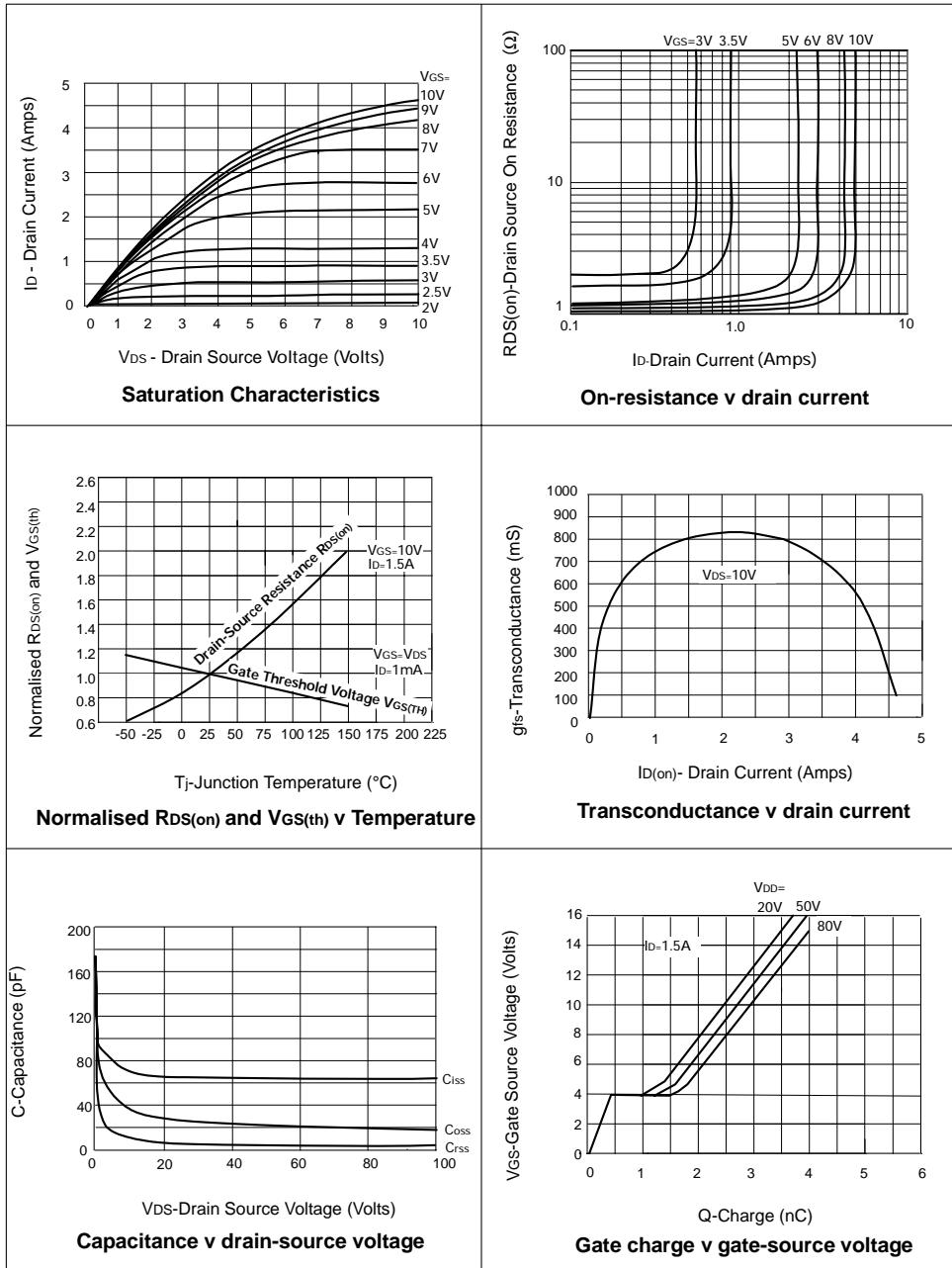
## ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE		UNIT
Drain-Source Voltage	$V_{DS}$	100		V
Continuous Drain Current at $T_{amb}=25^\circ C$	$I_D$	450		mA
Pulsed Drain Current	$I_{DM}$	6		A
Gate-Source Voltage	$V_{GS}$	$\pm 20$		V
Power Dissipation at $T_{amb}=25^\circ C$	$P_{tot}$	700		mW
Operating and Storage Temperature Range	$T_j \cdot T_{stg}$	-55 to +150		°C

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

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Drain-Source Breakdown Voltage	$BV_{DSS}$	100		V	$I_D=1mA, V_{GS}=0V$
Gate-Source Threshold Voltage	$V_{GS(th)}$	0.8	2.4	V	$ID=1mA, V_{DS}=V_{GS}$
Gate-Body Leakage	$I_{GSS}$		100	nA	$V_{GS}=\pm 20V, V_{DS}=0V$
Zero Gate Voltage Drain Current	$I_{DSS}$		10 100	$\mu A$	$V_{DS}=100V, V_{GS}=0$ $V_{DS}=80V, V_{GS}=0V, T=125^\circ C(2)$
On-State Drain Current(1)	$I_{D(on)}$	2.5		A	$V_{DS}=25V, V_{GS}=10V$
Static Drain-Source On-State Resistance (1)	$R_{DS(on)}$		1.5 1.8	$\Omega$	$V_{GS}=10V, I_D=1.5A$ $V_{GS}=5V, I_D=500mA$
Forward Transconductance(1)(2) $g_{fs}$ )		250		$mS$	$V_{DS}=25V, I_D=1.5A$
Input Capacitance (2)	$C_{iss}$		100	pF	$V_{DS}=25V, V_{GS}=0V, f=1MHz$
Common Source Output Capacitance (2)	$C_{oss}$		40	pF	
Reverse Transfer Capacitance (2)	$C_{rss}$		12	pF	
Turn-On Delay Time (2)(3)	$t_{d(on)}$		4	ns	$V_{DD}\approx 25V, I_D=1.5A$
Rise Time (2)(3)	$t_r$		8	ns	
Turn-Off Delay Time (2)(3)	$t_{d(off)}$		20	ns	
Fall Time (2)(3)	$t_f$		30	ns	

## TYPICAL CHARACTERISTICS



单击下面可查看定价，库存，交付和生命周期等信息

[>>Diodes Incorporated\(达迩科技 \(美台\) \)](#)