

SOT223 N-CHANNEL ENHANCEMENT MODE LOW THRESHOLD VERTICAL DMOS FET

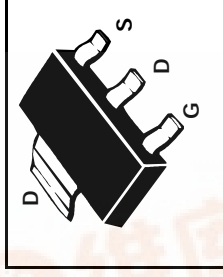
ZVNL110G

ISSUE 2 - FEBRUARY 1996

FEATURES

- * LOW $R_{DS(ON)}$ - 3Ω

PARTMARKING DETAIL - ZVNL110



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[捷多邦, 专业PCB打样工厂, 24小时加急出货](#)

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	600	mA
Pulsed Drain Current	I_{DM}	6	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation at $T_{amb}=25^{\circ}C$	P_{tot}	2	W
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}	100		V	$I_D=1mA, V_{GS}=0V$
Gate-Source Threshold Voltage	$V_{GS(th)}$	0.75	1.5	V	$I_D=1mA, V_{DS}=V_{GS}$
Gate-Body Leakage	I_{GSS}		100	nA	$V_{GS}=\pm 20V, V_{DS}=0V$
Zero Gate Voltage Drain Current	I_{DSS}		10 100	μA μA	$V_{DS}=100V, V_{GS}=0V$ $V_{DS}=80V, V_{GS}=0V, T=125^{\circ}C(2)$
On-State Drain Current(1)	$I_{D(on)}$	750		mA	$V_{DS}=25V, V_{GS}=5V$
Static Drain-Source On-State Resistance (1)	$R_{DS(on)}$		4.5 3.0	Ω	$V_{GS}=5V, I_D=250mA$ $V_{GS}=10V, I_D=500mA$
Forward Transconductance(1)(2)	g_{fs}		225	mS	$V_{DS}=25V, I_D=500mA$
Input Capacitance (2)	C_{iss}		75	pF	
Common Source Output Capacitance (2)	C_{oss}		25	pF	$V_{DS}=25V, V_{GS}=0V, f=1MHz$
Reverse Transfer Capacitance (2)	C_{rss}		8	pF	
Turn-On Delay Time (2)(3)	$t_{d(on)}$		7	ns	
Rise Time (2)(3)	t_r		12	ns	
Turn-Off Delay Time (2)(3)	$t_{d(off)}$		15	ns	
Fall Time (2)(3)	t_f		13	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

