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P-CHANNEL ENHANCEMENT MODE VERTICAL DMOS FET

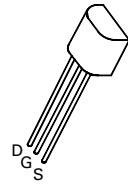
BS250P

ISSUE 2 – SEPT 93

FEATURES

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

REFER TO ZVP2106A FOR GRAPHS



E-Line
TO92 Compatible

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Drain-Source Voltage	V_{DS}	-45	V
Continuous Drain Current at $T_{amb}=25^{\circ}C$	I_D	-230	mA
Pulsed Drain Current	I_{DM}	-3	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 $T_{amb} = 25^{\circ}C$).

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.
Drain-Source Breakdown Voltage	BV_{DSS}	-45			V	$I_D=-100\mu A, V_{GS}=0V$
Gate-Source Threshold Voltage	$V_{GS(th)}$	-1		-3.5	V	$I_D=-1mA, V_{DS}=V_{GS}$
Gate Body Leakage	I_{GSS}			-20	nA	$V_{GS}=-15V, V_{DS}=0V$
Zero Gate Voltage Drain Current	I_{DSS}			-500	nA	$V_{GS}=0V, V_{DS}=-25V$
Static Drain-Source on-State Resistance (1)	$R_{DS(on)}$			14	Ω	$V_{GS}=-10V, I_D=-200mA$
Forward Transconductance (1)(2)	g_{fs}		150		mS	$V_{DS}=-10V, I_D=-200mA$
Input Capacitance (2)	C_{iss}		60		pF	$V_{GS}=0V, V_{DS}=-10V$ $f=1MHz$
Turn-On Time (2)(3)	$t_{(on)}$			20	ns	$V_{DD}=-25V, I_D=-500mA$
Turn-Off Time (2)(3)	$t_{(off)}$			20	ns	

(1) Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$ (2) Sample test

(3) Switching times measured with a 50 Ω source impedance and <5ns rise time on a pulse generator