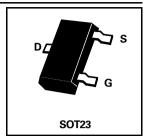
SOT23 P-CHANNEL ENHANCEMENT MODE VERTICAL DMOS FET

ISSUE 3 - JANUARY 1996

BS250F



PARTMARKING DETAIL - MX

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Drain-Source Voltage	V _{DS}	-45	V
Continuous Drain Current at T _{amb} =25°C	I _D	-90	mA
Pulsed Drain Current	I _{DM}	-1.6	А
Gate Source Voltage	V _{GS}	± 20	V
Power Dissipation at T _{amb} =25°C	P _{tot}	330	mW
Operating and Storage Temperature Range	T _j :T _{stg}	-55 to +150	°C

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

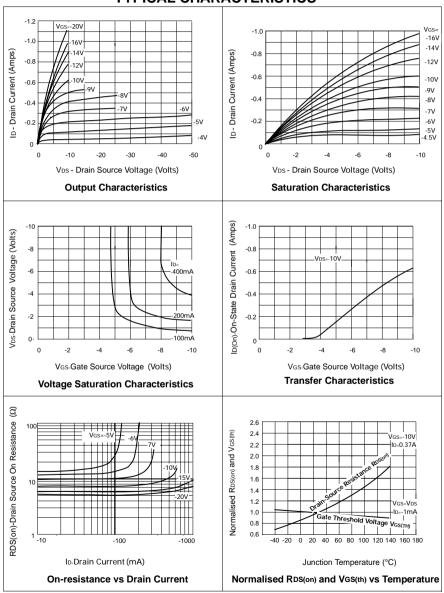
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PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	CONDITIONS.	
Drain-Source Breakdown Voltage	BV _{DSS}	-45	-70		V	I _D =-100μA, V _{GS} =0V	
Gate-Source Threshold Voltage	V _{GS(th)}	-1		-3.5	V	I _D =-1mA, V _{DS} = V _{GS}	
Gate-Body Leakage	I_{GSS}			-20	nΑ	V_{GS} =-15V, V_{DS} =0V	
Zero Gate Voltage Drain Current	I _{DSS}			-0.5.	μА	V _{DS} =-25V, V _{GS} =0V	
Static Drain-Source On-State Resistance (1)	R _{DS(on)}		9	14	Ω	V _{GS} =-10V,I _D =-200mA	
Forward Transconductance (1)(2)	g _{fs}		90		mS	V _{DS} =-10V,I _D =-200mA	
Input Capacitance (2)	C _{iss}		25		pF	V _{DS} =-10V, V _{GS} =0V, f=1MHz	
Turn-On Delay Time (2)(3)	t _{d(on)}			10	ns		
Rise Time (2)(3)	t _r			10	ns	V _{DD} ≈-25V, I _D =-200mA	
Turn-Off Delay Time (2)(3)	t _{d(off)}			10	ns		
Fall Time (2)(3)	t _f			10	ns		

⁽¹⁾ Measured under pulsed conditions. Width=300µs. Duty cycle ≤2% (2) Sample test.

⁽³⁾ Switching times measured with 50Ω source impedance and <5ns rise time on a pulse generator Spice parameter data is available upon request for this device

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TYPICAL CHARACTERISTICS



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TYPICAL CHARACTERISTICS

