SOT23 N-CHANNEL ENHANCEMENT MODE VERTICAL DMOS FET

BS170F

ISSUE 3 - JANUARY 1996

FEATURES

- * 60Volt V_{DS}
- * $R_{DS(ON)} = 5\Omega$

SOT23

PARTMARKING DETAIL - MV

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Drain-Source Voltage	V _{DS}	60	V
Continuous Drain Current at T _{amb} =25°C	I _D	0.15	mA
Pulsed Drain Current	I _{DM}	3	Α
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}	60	90		V	$I_D = 100 \mu A$, $V_{GS} = 0 V$	
Gate-Source Threshold Voltage	$V_{GS(th)}$	0.8		3	V	$I_D=1mA$, $V_{DS}=V_{GS}$	
Gate-Body Leakage	I _{GSS}			10	nA	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)}			5	Ω	V _{GS} =10V, I _D =200mA	
Forward Transconductance (1)(2)	g _{fs}		200		mS	V _{DS} =10V, I _D =200mA	
Input Capacitance (2)	C _{iss}		60		pF	V _{DS} =10V, V _{GS} =0V, f=1MHz	
Turn-On Delay Time (2)(3)	t _{d(on)}			10	ns	V _{DD} ≈-15V, I _D =600mA	
Turn-Off Delay Time (2)(3)	t _{d(off)}			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 For typical characteristics graphs refer to ZVN3306F datasheet.

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