



# THE DATASHEET OF BS170FTA



**SOT23 N-CHANNEL ENHANCED  
MODE VERTICAL DMOS FET**  
**ISSUE 3 - JANUARY 1996**

**FEATURES**

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

PARTMARKING DETAIL - MV

**ABSOLUTE MAXIMUM RATINGS**

PARAMETER
Drain-Source Voltage
Continuous Drain Current at $T_{amb}=25^{\circ}C$
Pulsed Drain Current
Gate Source Voltage
Power Dissipation at $T_{amb}=25^{\circ}C$
Operating and Storage Temperature Range

**ELECTRICAL CHARACTERISTICS**

PARAMETER	SYMBOL
Drain-Source Breakdown Voltage	$BV_{DSS}$
Gate-Source Threshold Voltage	$V_{GS(th)}$
Gate-Body Leakage	$I_{GSS}$
Zero Gate Voltage Drain Current	$I_{DSS}$
Static Drain-Source On-State Resistance (1)	$R_{DS(on)}$
Forward Transconductance (1)(2)	$g_{fs}$
Input Capacitance (2)	$C_{iss}$
Turn-On Delay Time (2)(3)	$t_{d(on)}$
Turn-Off Delay Time (2)(3)	$t_{d(off)}$

(1) Measured under pulsed conditions.  $W_{eff} = 100\mu m$

(3) Switching times measured with  $50\Omega$  source and  $50\Omega$  load. Spice parameter data is available upon request.

For typical characteristics graphs refer to Z

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View BS170FTA on WIN SOURCE](#)
-  [Diodes Incorporated Information](#)

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