



# BF556A; BF556B; BF556C

N-channel silicon junction field-effect transistors

Rev. 4 — 15 September 2011

Product data sheet

## 1. Product profile

### 1.1 General description

N-channel symmetrical silicon junction field-effect transistors in a SOT23 package.

#### CAUTION



This device is sensitive to ElectroStatic Discharge (ESD). Therefore care should be taken during transport and handling.

### 1.2 Features and benefits

- Low leakage level (typ. 500 fA)
- High gain
- Low cut-off voltage.

### 1.3 Applications

- Impedance converters in e.g. electret microphones and infrared detectors
- VHF amplifiers in oscillators and mixers.

### 1.4 Quick reference data

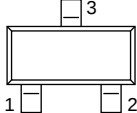
Table 1. Quick reference data

| Symbol      | Parameter                   | Conditions                             | Min  | Typ | Max      | Unit |
|-------------|-----------------------------|----------------------------------------|------|-----|----------|------|
| $V_{DS}$    | drain-source voltage (DC)   |                                        | -    | -   | $\pm 30$ | V    |
| $V_{GSoff}$ | gate-source cut-off voltage | $I_D = 200 \mu A$ ;<br>$V_{DS} = 15 V$ | -0.5 | -   | -7.5     | V    |
| $I_{DSS}$   | drain current               | $V_{GS} = 0 V$ ; $V_{DS} = 15 V$       |      |     |          |      |
|             |                             | BF556A                                 | 3    | -   | 7        | mA   |
|             |                             | BF556B                                 | 6    | -   | 13       | mA   |
|             |                             | BF556C                                 | 11   | -   | 18       | mA   |
| $P_{tot}$   | total power dissipation     | $T_{amb} \leq 25 ^\circ C$             | -    | -   | 250      | mW   |
| $ y_{fs} $  | forward transfer admittance | $V_{GS} = 0 V$ ; $V_{DS} = 15 V$       | 4.5  | -   | -        | mS   |



## 2. Pinning information

Table 2. Pinning

| Pin | Description | Simplified outline                                                                  | Symbol                                                                              |
|-----|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1   | source (s)  |  |  |
| 2   | drain (d)   |                                                                                     |                                                                                     |
| 3   | gate (g)    |                                                                                     |                                                                                     |

## 3. Ordering information

Table 3. Ordering information

| Type number | Package |                                          |         |
|-------------|---------|------------------------------------------|---------|
|             | Name    | Description                              | Version |
| BF556A      | -       | plastic surface mounted package; 3 leads | SOT23   |
| BF556B      |         |                                          |         |
| BF556C      |         |                                          |         |

## 4. Marking

Table 4. Marking

| Type number | Marking code <sup>[1]</sup> |
|-------------|-----------------------------|
| BF556A      | 24*                         |
| BF556B      | 25*                         |
| BF556C      | 26*                         |

[1] \* = p: made in Hong Kong.

\* = t: made in Malaysia.

\* = W: made in China.

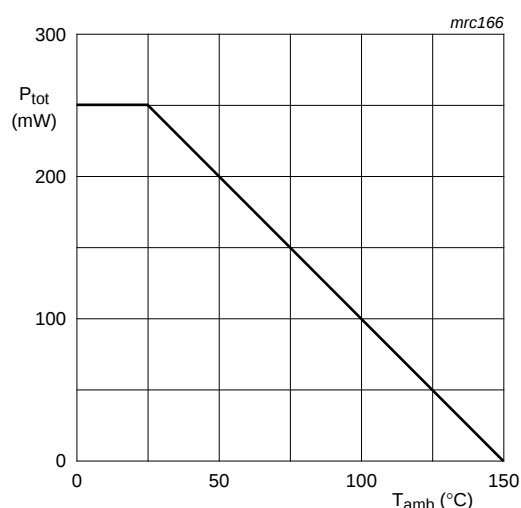
## 5. Limiting values

**Table 5. Limiting values**

*In accordance with the Absolute Maximum Rating System (IEC 60134).*

| Symbol    | Parameter                 | Conditions                  | Min | Max      | Unit |
|-----------|---------------------------|-----------------------------|-----|----------|------|
| $V_{DS}$  | drain-source voltage (DC) |                             | -   | $\pm 30$ | V    |
| $V_{GSO}$ | gate-source voltage       | open drain                  | -   | -30      | V    |
| $V_{GDO}$ | gate-drain voltage (DC)   | open source                 | -   | -30      | V    |
| $I_G$     | forward gate current (DC) |                             | -   | 10       | mA   |
| $P_{tot}$ | total power dissipation   | $T_{amb} \leq 25\text{ °C}$ | [1] | 250      | mW   |
| $T_{stg}$ | storage temperature       |                             | -65 | +150     | °C   |
| $T_j$     | junction temperature      |                             | -   | 150      | °C   |

[1] Device mounted on an FR4 printed-circuit board, maximum lead length 4 mm; mounting pad for the drain lead 10 mm<sup>2</sup>.



**Fig 1. Power derating curve.**

## 6. Thermal characteristics

**Table 6. Thermal characteristics**

| Symbol        | Parameter                                   | Conditions | Typ     | Unit |
|---------------|---------------------------------------------|------------|---------|------|
| $R_{th(j-a)}$ | thermal resistance from junction to ambient |            | [1] 500 | K/W  |

[1] Device mounted on an FR4 printed-circuit board, maximum lead length 4 mm; mounting pad for the drain lead 10 mm<sup>2</sup>.

## 7. Static characteristics

**Table 7. Static characteristics**

$T_j = 25\text{ }^{\circ}\text{C}$  unless otherwise specified.

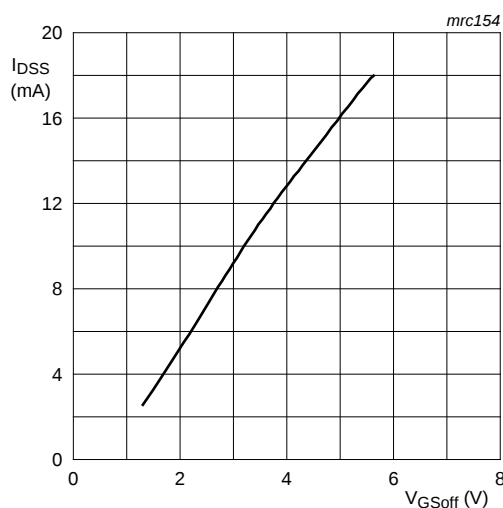
| Symbol        | Parameter                       | Conditions                                              | Min  | Typ  | Max   | Unit          |
|---------------|---------------------------------|---------------------------------------------------------|------|------|-------|---------------|
| $V_{(BR)GSS}$ | gate-source breakdown voltage   | $I_G = -1\text{ }\mu\text{A}$ ; $V_{DS} = 0\text{ V}$   | -30  | -    | -     | V             |
| $V_{GSoff}$   | gate-source cut-off voltage     | $I_D = 200\text{ }\mu\text{A}$ ; $V_{DS} = 15\text{ V}$ | -0.5 | -    | -7.5  | V             |
| $I_{DSS}$     | drain current                   | $V_{GS} = 0\text{ V}$ ; $V_{DS} = 15\text{ V}$          |      |      |       |               |
|               |                                 | BF556A                                                  | 3    | -    | 7     | mA            |
|               |                                 | BF556B                                                  | 6    | -    | 13    | mA            |
|               |                                 | BF556C                                                  | 11   | -    | 18    | mA            |
| $I_{GSS}$     | gate-source leakage current     | $V_{GS} = -20\text{ V}$ ; $V_{DS} = 0\text{ V}$         | -    | -0.5 | -5000 | pA            |
| $ y_{fs} $    | forward transfer admittance     | $V_{GS} = 0\text{ V}$ ; $V_{DS} = 15\text{ V}$          | 4.5  | -    | -     | mS            |
| $ y_{os} $    | common source output admittance | $V_{GS} = 0\text{ V}$ ; $V_{DS} = 15\text{ V}$          | -    | 40   | -     | $\mu\text{S}$ |

## 8. Dynamic characteristics

**Table 8. Dynamic characteristics**

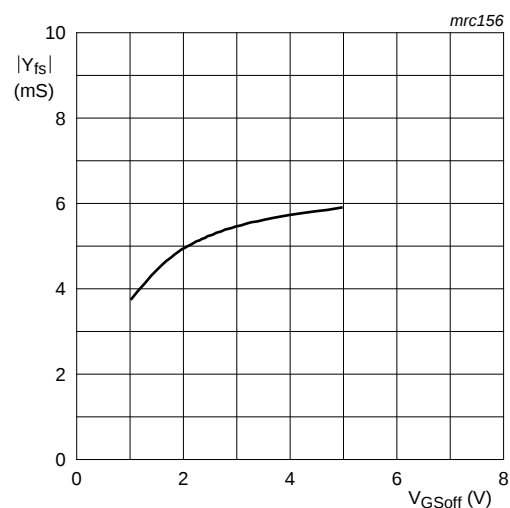
$T_j = 25\text{ }^{\circ}\text{C}$  unless otherwise specified.

| Symbol    | Parameter                          | Conditions                                                        | Min | Typ | Max | Unit                   |
|-----------|------------------------------------|-------------------------------------------------------------------|-----|-----|-----|------------------------|
| $C_{iss}$ | input capacitance                  | $V_{DS} = 15\text{ V}; f = 1\text{ MHz}$                          |     |     |     |                        |
|           |                                    | $V_{GS} = -10\text{ V}$                                           | -   | 1.7 | -   | pF                     |
|           |                                    | $V_{GS} = 0\text{ V}$                                             | -   | 3   | -   | pF                     |
| $C_{rss}$ | reverse transfer capacitance       | $V_{DS} = 15\text{ V}; f = 1\text{ MHz}$                          |     |     |     |                        |
|           |                                    | $V_{GS} = -10\text{ V}$                                           | -   | 0.8 | -   | pF                     |
|           |                                    | $V_{GS} = 0\text{ V}$                                             | -   | 0.9 | -   | pF                     |
| $g_{is}$  | common source input conductance    | $V_{DS} = 10\text{ V}; I_D = 1\text{ mA}$                         |     |     |     |                        |
|           |                                    | $f = 100\text{ MHz}$                                              | -   | 15  | -   | $\mu\text{S}$          |
|           |                                    | $f = 450\text{ MHz}$                                              | -   | 300 | -   | $\mu\text{S}$          |
| $g_{fs}$  | common source transfer conductance | $V_{DS} = 10\text{ V}; I_D = 1\text{ mA}$                         |     |     |     |                        |
|           |                                    | $f = 100\text{ MHz}$                                              | -   | 2   | -   | mS                     |
|           |                                    | $f = 450\text{ MHz}$                                              | -   | 1.8 | -   | mS                     |
| $g_{rs}$  | common source reverse conductance  | $V_{DS} = 10\text{ V}; I_D = 1\text{ mA}$                         |     |     |     |                        |
|           |                                    | $f = 100\text{ MHz}$                                              | -   | -6  | -   | $\mu\text{S}$          |
|           |                                    | $f = 450\text{ MHz}$                                              | -   | -40 | -   | $\mu\text{S}$          |
| $g_{os}$  | common source output conductance   | $V_{DS} = 10\text{ V}; I_D = 1\text{ mA}$                         |     |     |     |                        |
|           |                                    | $f = 100\text{ MHz}$                                              | -   | 30  | -   | $\mu\text{S}$          |
|           |                                    | $f = 450\text{ MHz}$                                              | -   | 60  | -   | $\mu\text{S}$          |
| $V_n$     | equivalent input noise voltage     | $V_{DS} = 10\text{ V}; I_D = 1\text{ mA};$<br>$f = 100\text{ Hz}$ | -   | 40  | -   | nV/ $\sqrt{\text{Hz}}$ |



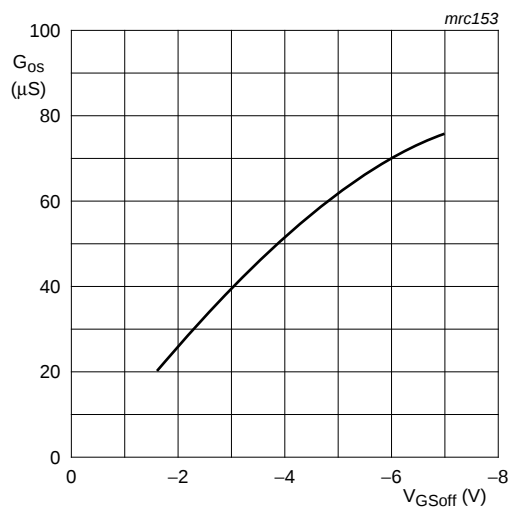
$V_{DS} = 15\text{ V}.$

**Fig. 2. Drain current as a function of gate-source cut-off voltage; typical values.**



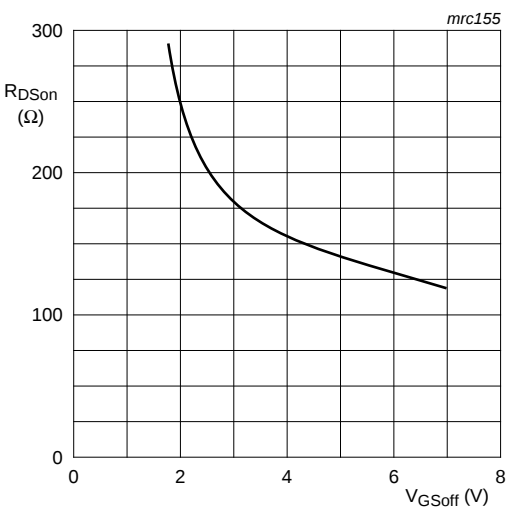
$V_{DS} = 15\text{ V}; I_D = 1\text{ }\mu\text{A}.$

**Fig. 3. Forward transfer admittance as a function of gate-source cut-off voltage; typical values.**



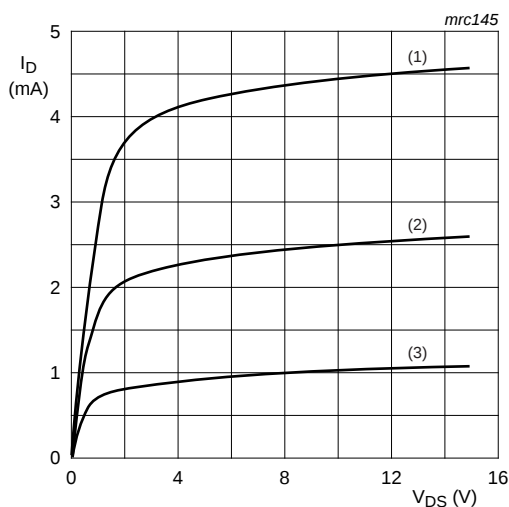
$V_{DS} = 15\text{ V}$ .

Fig 4. Common-source output conductance as a function of gate-source cut-off voltage; typical values.



$V_{DS} = 100\text{ mV}$ ;  $V_{GS} = 0\text{ V}$ .

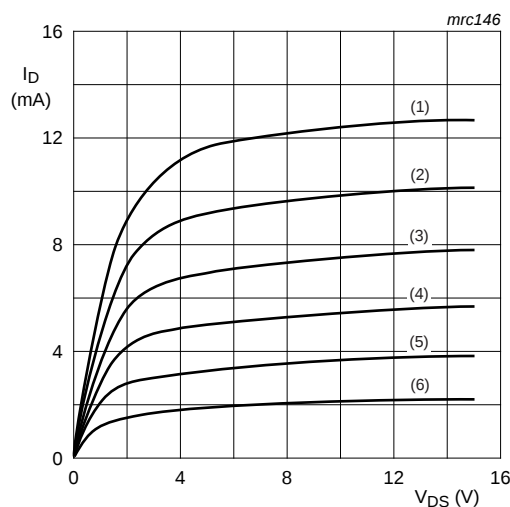
Fig 5. Drain-source on-state resistance as a function of gate-source cut-off voltage; typical values.



**BF556A**

- (1)  $V_{GS} = 0\text{ V}$ .
- (2)  $V_{GS} = -0.5\text{ V}$ .
- (3)  $V_{GS} = -1.0\text{ V}$ .

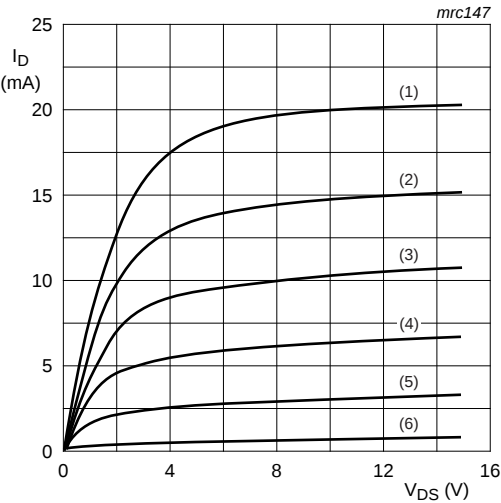
Fig 6. Typical output characteristics.



**BF556B**

- (1)  $V_{GS} = 0\text{ V}$ .
- (2)  $V_{GS} = -0.5\text{ V}$ .
- (3)  $V_{GS} = -1.0\text{ V}$ .
- (4)  $V_{GS} = -1.5\text{ V}$ .
- (5)  $V_{GS} = -2.0\text{ V}$ .
- (6)  $V_{GS} = -2.5\text{ V}$ .

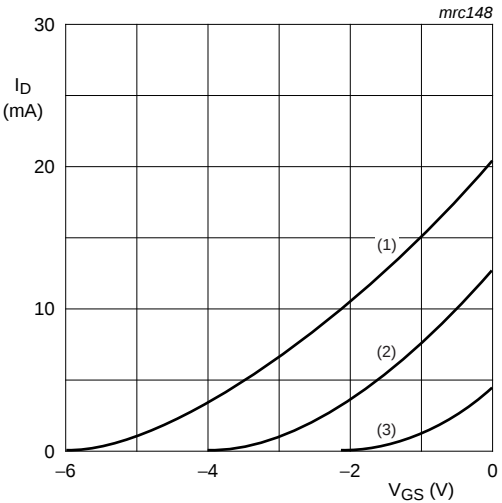
Fig 7. Typical output characteristics.



**BF556C**

- (1)  $V_{GS} = 0\text{ V}$ .
- (2)  $V_{GS} = -1.0\text{ V}$ .
- (3)  $V_{GS} = -2.0\text{ V}$ .
- (4)  $V_{GS} = -3.0\text{ V}$ .
- (5)  $V_{GS} = -4.0\text{ V}$ .
- (6)  $V_{GS} = -5.0\text{ V}$ .

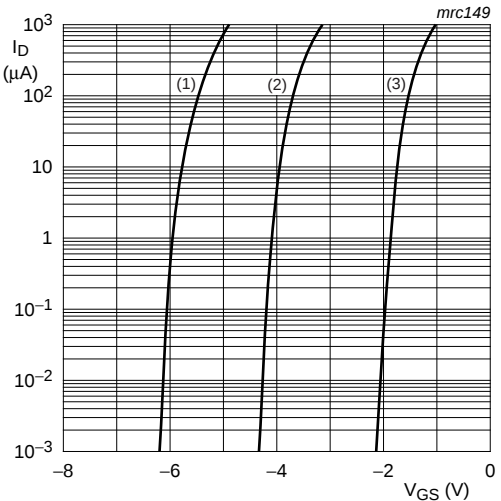
Fig 8. Typical output characteristics.



$V_{DS} = 15\text{ V}$ .

- (1) BF556C.
- (2) BF556B.
- (3) BF556A.

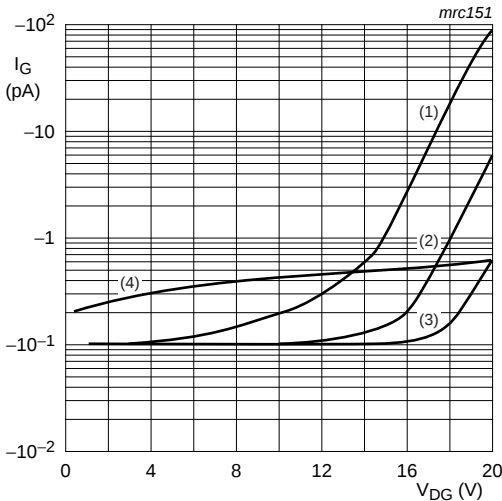
Fig 9. Typical input characteristics.



$V_{DS} = 15\text{ V}$ .

- (1) BF556C.
- (2) BF556B.
- (3) BF556A.

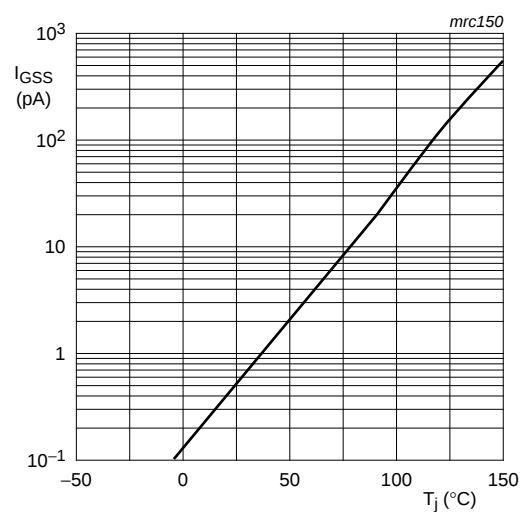
Fig 10. Drain current as a function of gate-source voltage; typical values.



$I_D = 10\text{ mA}$  only for BF556B and BF556C.

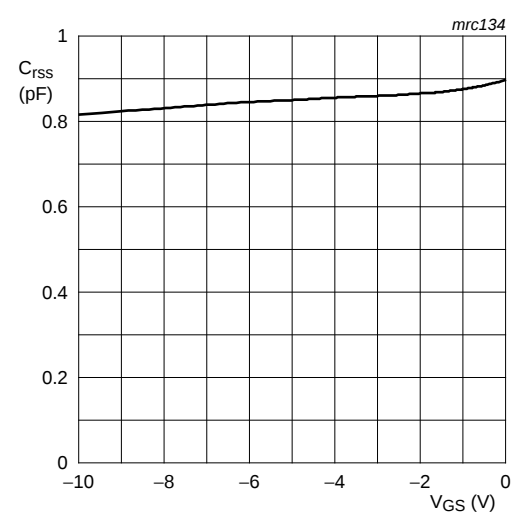
- (1)  $I_D = 10\text{ mA}$ .
- (2)  $I_D = 1\text{ mA}$ .
- (3)  $I_D = 0.1\text{ mA}$ .
- (4)  $I_{GSS}$ .

Fig 11. Gate current as a function of drain-gate voltage; typical values.



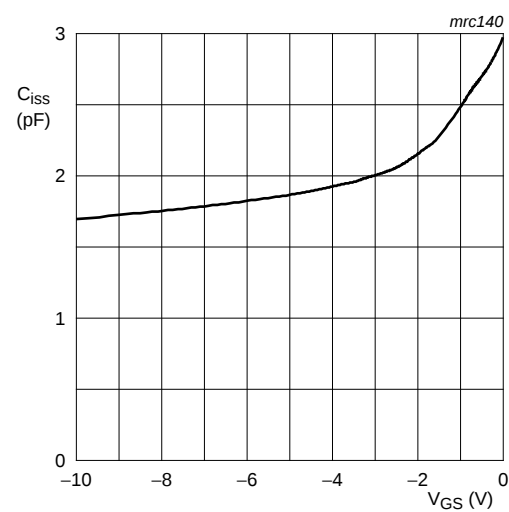
$V_{DS} = 0\text{ V}$ ;  $V_{GS} = -20\text{ V}$ .

Fig 12. Gate current as a function of junction temperature; typical values.



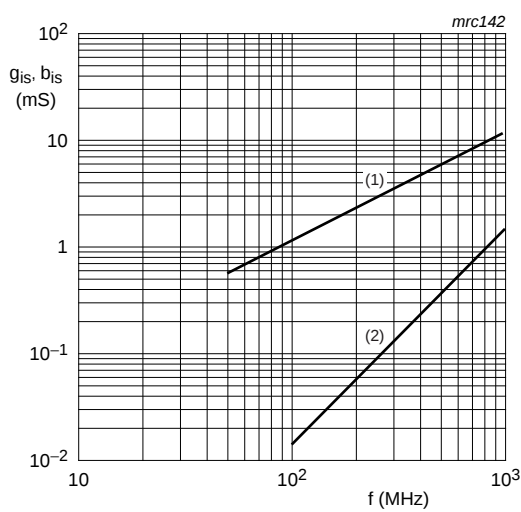
$V_{DS} = 15\text{ V}$ .

Fig 13. Reverse transfer capacitance; typical values.



$V_{DS} = 15\text{ V}$ .

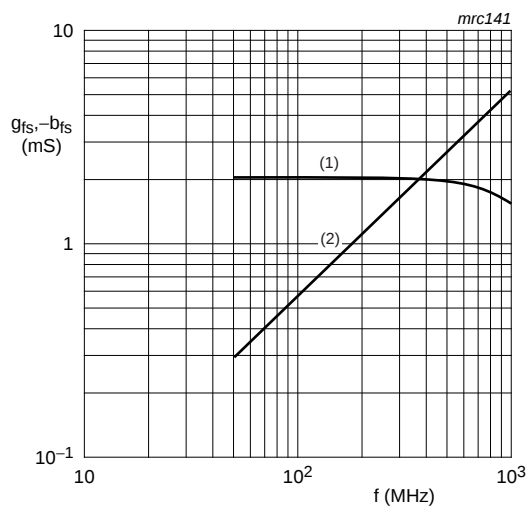
Fig 14. Input capacitance; typical values.



$V_{DS} = 10\text{ V}$ ;  $I_D = 1\text{ mA}$ ;  $T_{amb} = 25\text{ °C}$ .

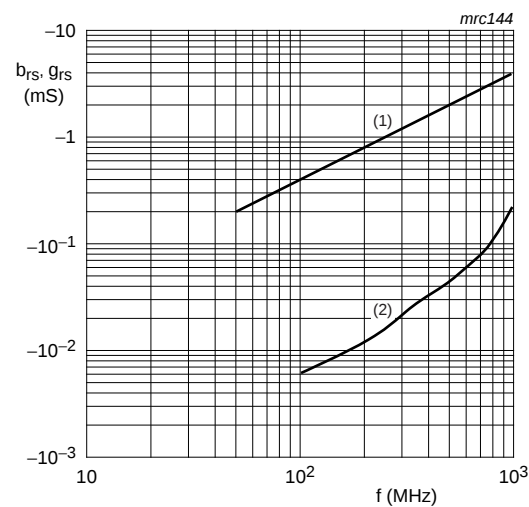
- (1)  $b_{is}$ .
- (2)  $g_{is}$ .

Fig 15. Common-source input admittance; typical values.



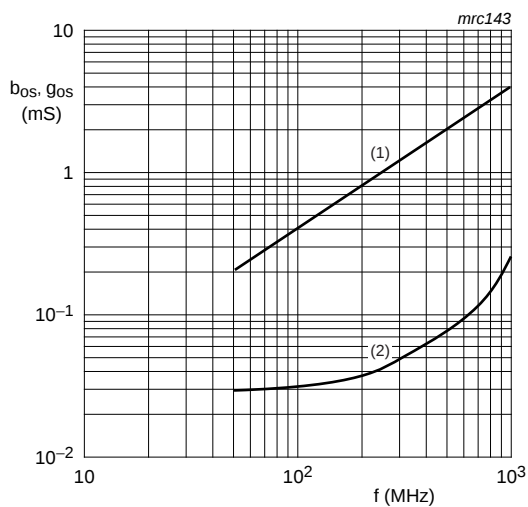
$V_{DS} = 10\text{ V}; I_D = 1\text{ mA}; T_{amb} = 25\text{ }^{\circ}\text{C}.$   
(1)  $g_{fs}$ .  
(2)  $-b_{fs}$ .

Fig 16. Common-source transfer admittance; typical values.



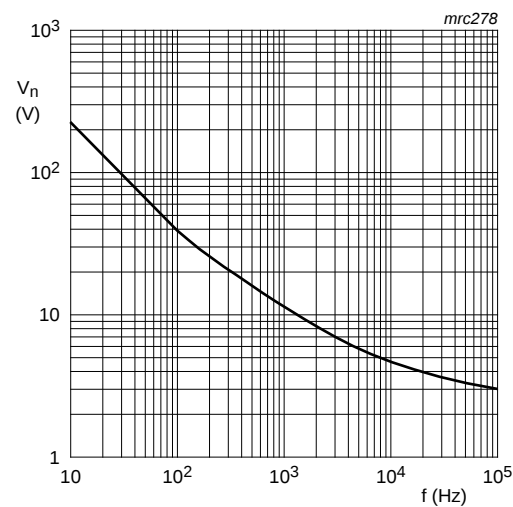
$V_{DS} = 10\text{ V}; I_D = 1\text{ mA}; T_{amb} = 25\text{ }^{\circ}\text{C}.$   
(1)  $b_{rs}$ .  
(2)  $g_{rs}$ .

Fig 17. Common-source reverse admittance; typical values.



$V_{DS} = 10\text{ V}; I_D = 1\text{ mA}; T_{amb} = 25\text{ }^{\circ}\text{C}.$   
(1)  $b_{os}$ .  
(2)  $g_{os}$ .

Fig 18. Common-source output admittance; typical values.



$V_{DS} = 10\text{ V}; I_D = 1\text{ mA}.$

Fig 19. Equivalent noise voltage as a function of frequency.

9. Package outline

Plastic surface-mounted package; 3 leadsSOT23

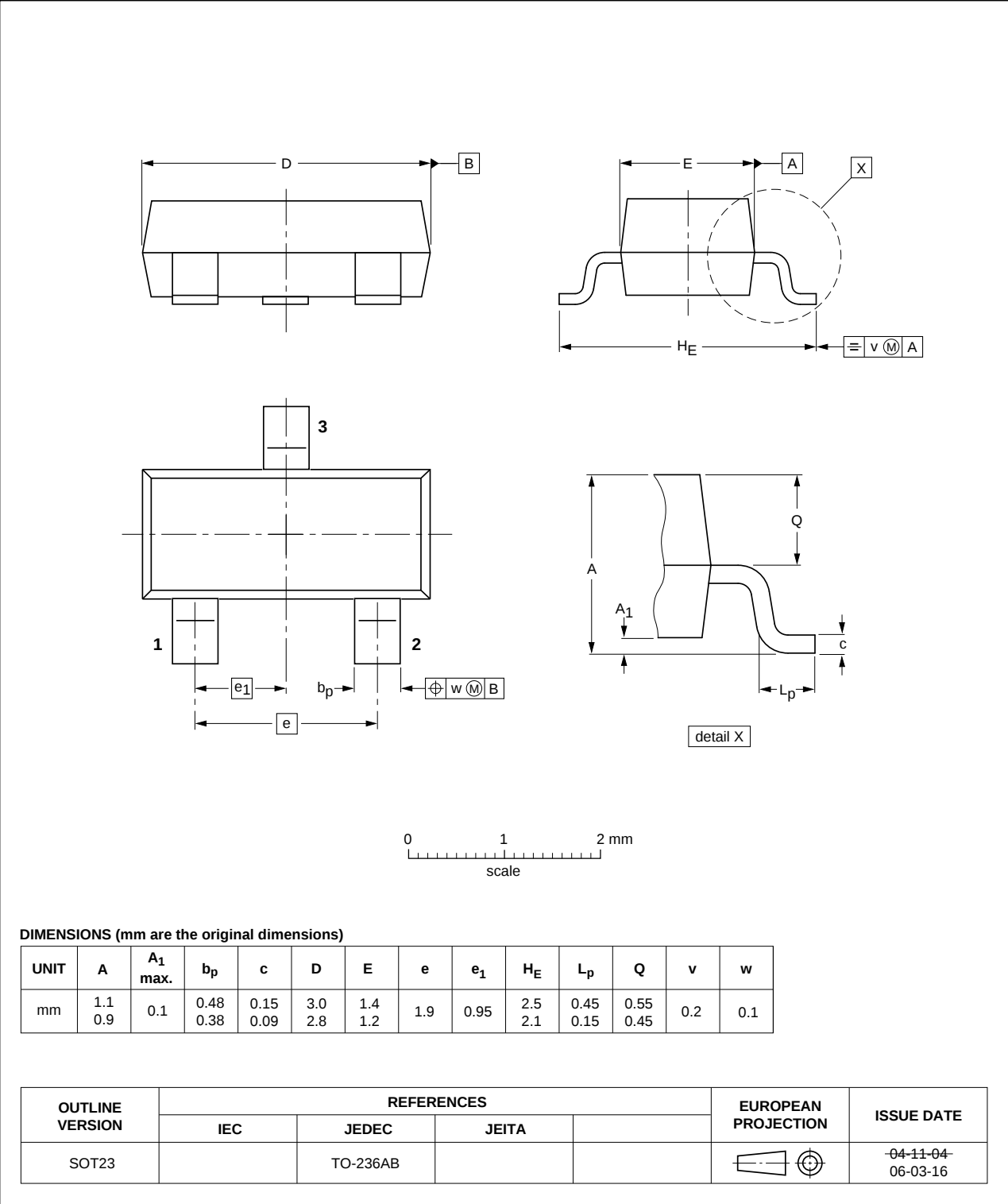


Fig 20. Package outline.

## 10. Revision history

**Table 9.** Revision history

| Document ID                                  | Release date                                                                                                                                                                                                                                                                                                                         | Data sheet status  | Change notice | Supersedes               |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|--------------------------|
| BF556A_BF556B_BF556C v.4                     | 20110915                                                                                                                                                                                                                                                                                                                             | Product data sheet | -             | BF556A_BF556B_BF556C v.3 |
| Modifications:                               | <ul style="list-style-type: none"><li>• The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li><li>• Legal texts have been adapted to the new company name where appropriate.</li><li>• Package outline drawings have been updated to the latest version.</li></ul> |                    |               |                          |
| BF556A_BF556B_BF556C v.3<br>(9397 750 13393) | 20040805                                                                                                                                                                                                                                                                                                                             | Product data sheet | -             | BF556A-B-C v.2           |
| BF556A-B-C v.2                               | 19960729                                                                                                                                                                                                                                                                                                                             | Product data sheet | -             | -                        |

## 11. Legal information

### 11.1 Data sheet status

| Document status <sup>[1][2]</sup> | Product status <sup>[3]</sup> | Definition                                                                            |
|-----------------------------------|-------------------------------|---------------------------------------------------------------------------------------|
| Objective [short] data sheet      | Development                   | This document contains data from the objective specification for product development. |
| Preliminary [short] data sheet    | Qualification                 | This document contains data from the preliminary specification.                       |
| Product [short] data sheet        | Production                    | This document contains the product specification.                                     |

[1] Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL <http://www.nxp.com>.

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## 13. Contents

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