

N-channel 80 V, 3.5 mΩ standard level MOSFET in D2PAK Rev. 2 — 29 February 2012 Product data s

Product data sheet

Product profile 1.

1.1.1

1.1 General description

Standard level N-channel MOSFET in D2PAK package qualified to 175C. This product is designed and qualified for use in a wide range of industrial, communications and domestic equipment.

1.2 Features and benefits

- High efficiency due to low switching and conduction losses
- Suitable for standard level gate drive

1.3 Applications

- DC-to-DC converters
- Load switch

- Motor control
- Server power supplies

1.4 Quick reference data

. . .

Table 1.	Quick reference data						
Symbol	Parameter	Conditions		Min	Тур	Max	Unit
V _{DS}	drain-source voltage	T _j ≥ 25 °C; T _j ≤ 175 °C		-	-	80	V
I _D	drain current	T_{mb} = 25 °C; V_{GS} = 10 V; see <u>Figure 1</u>	[1]	-	-	120	А
P _{tot}	total power dissipation	T _{mb} = 25 °C; see <u>Figure 2</u>		-	-	306	W
Tj	junction temperature			-55	-	175	°C
Static cha	aracteristics						
R _{DSon}	drain-source on-state	V_{GS} = 10 V; I _D = 25 A; T _j = 25 °C; see <u>Figure 13</u>		-	3	3.5	mΩ
	resistance	V_{GS} = 10 V; I_D = 25 A; T_j = 100 °C; see <u>Figure 12</u> ; see <u>Figure 13</u>		-	4.95	5.8	mΩ
Dynamic	characteristics						
Q _{GD}	gate-drain charge	V_{GS} = 10 V; I _D = 75 A; V_{DS} = 40 V; see <u>Figure 14</u> ;		-	28	-	nC
Q _{G(tot)}	total gate charge	see <u>Figure 15</u>		-	111	-	nC
Avalanch	e ruggedness						
E _{DS(AL)S}	non-repetitive drain-source avalanche energy	$ V_{GS} = 10 \text{ V}; \ T_{j(init)} = 25 \ ^{\circ}\text{C}; \ I_{D} = 120 \text{ A}; \\ V_{sup} \leq 80 \text{ V}; \ R_{GS} = 50 \ \Omega; \ unclamped $		-	-	676	mJ

[1] Continuous current is limited by package.



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2. Pinning information

Table 2.	Pinning	j information		
Pin	Symbol	Description	Simplified outline	Graphic symbol
1	G	gate		_
2	D	drain	mb	
3	S	source		
mb	D	drain	ii	
				mbb076 S
			SOT404 (D2PAK)	

3. Ordering information

Table 3. Ordering	information		
Type number	Package		
	Name	Description	Version
PSMN3R3-80BS	D2PAK	plastic single-ended surface-mounted package (D2PAK); 3 leads (one lead cropped)	SOT404

4. Limiting values

Table 4. Limiting values

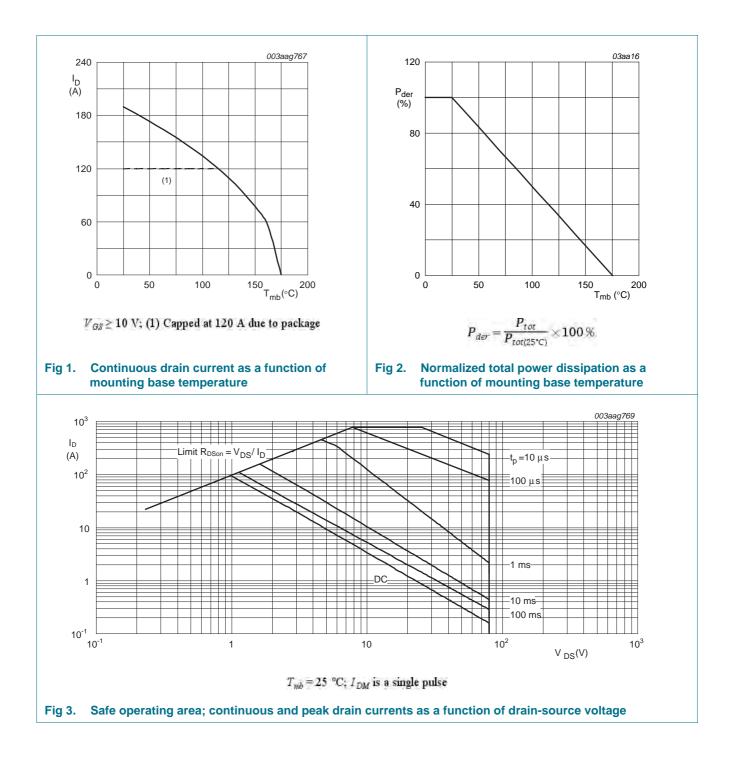
In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Max	Unit
V _{DS}	drain-source voltage	T _j ≥ 25 °C; T _j ≤ 175 °C	-	80	V
V _{DGR}	drain-gate voltage	T _j ≥ 25 °C; T _j ≤ 175 °C; R _{GS} = 20 kΩ	-	80	V
V _{GS}	gate-source voltage		-20	20	V
I _D	drain current	V _{GS} = 10 V; T _{mb} = 100 °C; see <u>Figure 1</u>	<u>[1]</u> -	120	А
		V_{GS} = 10 V; T_{mb} = 25 °C; see <u>Figure 1</u>	<u>[1]</u> -	120	А
I _{DM}	peak drain current	pulsed; $t_p \le 10 \ \mu$ s; $T_{mb} = 25 \ ^{\circ}C$; see <u>Figure 3</u>	-	760	A
P _{tot}	total power dissipation	T _{mb} = 25 °C; see <u>Figure 2</u>	-	306	W
T _{stg}	storage temperature		-55	175	°C
Tj	junction temperature		-55	175	°C
T _{sld(M)}	peak soldering temperature		-	260	°C
Source-drai	in diode				
I _S	source current	T _{mb} = 25 °C	<u>[1]</u> -	120	А
I _{SM}	peak source current	pulsed; $t_p \le 10 \ \mu$ s; $T_{mb} = 25 \ ^{\circ}C$	-	760	А
Avalanche r	ruggedness				
E _{DS(AL)S}	non-repetitive drain-source avalanche energy	V_{GS} = 10 V; $T_{j(init)}$ = 25 °C; I_D = 120 A; $V_{sup} \le 80$ V; R_{GS} = 50 Ω ; unclamped	-	676	mJ

[1] Continuous current is limited by package.

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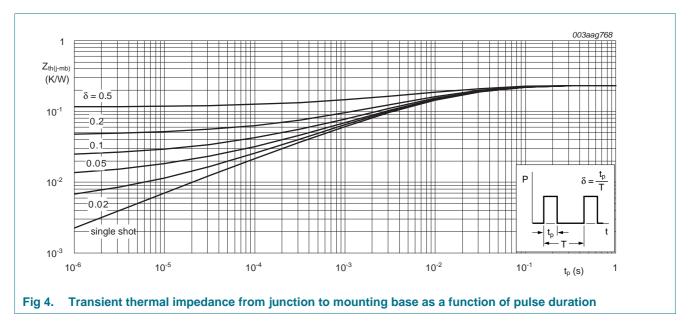
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5. Thermal characteristics

Table 5.	Thermal characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
R _{th(j-mb)}	thermal resistance from junction to mounting base	see Figure 4	-	0.22	0.49	K/W
R _{th(j-a)}	thermal resistance from junction to ambient	minimum footprint; mounted on a printed circuit board	-	50	-	K/W



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6. Characteristics

Table 6.	Characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Static cha	aracteristics					
V _{(BR)DSS}	drain-source	$I_D = 250 \ \mu A; \ V_{GS} = 0 \ V; \ T_j = -55 \ ^\circ C$	73	-	-	V
	breakdown voltage	$I_D = 250 \ \mu A; \ V_{GS} = 0 \ V; \ T_j = 25 \ ^\circ C$	80	-	-	V
V _{GS(th)}	gate-source threshold voltage	I _D = 1 mA; V _{DS} = V _{GS} ; T _j = 175 °C; see <u>Figure 10</u>	1	-	-	V
		$I_D = 1 \text{ mA}; V_{DS} = V_{GS}; T_j = -55 \text{ °C};$ see Figure 10	-	-	4.6	V
		$I_D = 1 \text{ mA}; V_{DS} = V_{GS}; T_j = 25 \text{ °C};$ see <u>Figure 10</u> ;see <u>Figure 11</u>	2	3	4	V
I _{DSS}	drain leakage current	$V_{DS} = 80 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	0.02	10	μA
		$V_{DS} = 80 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 175 \text{ °C}$	-	-	500	μA
I _{GSS}	gate leakage current	V_{GS} = -20 V; V_{DS} = 0 V; T_j = 25 °C	-	10	100	nA
		$V_{GS} = 20 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	10	100	nA
R _{DSon}	drain-source on-state resistance	V _{GS} = 10 V; I _D = 25 A; T _j = 175 °C; see <u>Figure 12</u> ;see <u>Figure 13</u>	-	7.1	8.4	mΩ
		V _{GS} = 10 V; I _D = 25 A; T _j = 25 °C; see <u>Figure 13</u>	-	3	3.5	mΩ
		V_{GS} = 10 V; I_D = 25 A; T_j = 100 °C; see <u>Figure 12</u> ;see <u>Figure 13</u>	-	4.95	5.8	mΩ
R _G	internal gate resistance (AC)	f = 1 MHz	-	0.9	-	Ω
Dynamic	characteristics					
Q _{G(tot)}	total gate charge	$I_D = 0 \text{ A}; \text{ V}_{DS} = 0 \text{ V}; \text{ V}_{GS} = 10 \text{ V}$	-	104	-	nC
		$I_D = 75 \text{ A}; V_{DS} = 40 \text{ V}; V_{GS} = 10 \text{ V};$	-	111	-	nC
Q _{GS}	gate-source charge	see Figure 14; see Figure 15	-	38	-	nC
Q _{GS(th)}	pre-threshold gate-source charge		-	24	-	nC
Q _{GS(th-pl)}	post-threshold gate-source charge		-	14	-	nC
Q _{GD}	gate-drain charge		-	28	-	nC
V _{GS(pl)}	gate-source plateau voltage	$I_D = 75 \text{ A}; V_{DS} = 40 \text{ V};$ see <u>Figure 14;</u> see <u>Figure 15</u>	-	6.1	-	V
C _{iss}	input capacitance	V _{DS} = 40 V; V _{GS} = 0 V; f = 1 MHz;	-	8161	-	pF
C _{oss}	output capacitance	T _j = 25 °C; see <u>Figure 16</u>	-	701	-	pF
C _{rss}	reverse transfer capacitance		-	337	-	рF
t _{d(on)}	turn-on delay time	V_{DS} = 40 V; R _L = 0.53 Ω; V _{GS} = 10 V;	-	38	-	ns
t _r	rise time	$R_{G(ext)} = 4.7 \ \Omega; I_D = 75 \ A$	-	29	-	ns
t _{d(off)}	turn-off delay time		-	94	-	ns
t _f	fall time		-	33	-	ns

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Symbol

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Тур

Max

Unit

N-channel 80 V, 3.5 m Ω standard level MOSFET in D2PAK

Min

Source-drai	n diode						
/ _{SD}	source-drain voltage	$I_S = 25 \text{ A}; V_{GS} = 0 \text{ N}$ see Figure 17	/; T _j = 25 °C;	-	0.8	1.2	V
r	reverse recovery time		00 A/µs; V _{GS} = 0 V;	-	59	-	ns
Q _r	recovered charge	V _{DS} = 20 V		-	109	-	nC
		003aaf619			(003aaf620	
250			80				
g _{fs} (S)			I _D (A)		-++		
200 -			60				
150 -							
			40		+++		
100 -							
50 -			20	T _i = 175 °C	$T_i = 2$	25 °C	
。 Z			0		Л		
0	15 30 45	60	0	2	4 ,	00 6	
0	10 00 10	I _D (A)	0	-	V _G	_{iS} (V) ^б	
0		I _D (A)	U		۷G	is ^(v)	
0	$T_j = 25 ^{\circ}C; V_{DS} = 25$		0	$V_{DS} > I_D \times I_D$	۷G	S(V)	
		V			∨G R _{DSon}		is a
Fig 5. Fo	$T_j = 25 ^{\circ}C; V_{DS} = 25$	V as a function of	Fig 6. Transfer of	$V_{DS} \! > \! I_D \! \times \! I_D$	v _G R _{DSon} s: drain d	current a	
Fig 5. Fo dra	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	V as a function of	Fig 6. Transfer of function of	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a	
Fig 5. Fo	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function of 25	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function of	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra 10 ⁵	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function of R _{DSon}	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function c	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function c	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function of R _{DSon} (mΩ) 20	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra 10 ⁵ C (pF) 10 ⁴	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function of R _{DSon} (mΩ) 20	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function of R_{DSon} (m Ω) 20	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra 10 ⁵ C (pF) 10 ⁴	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function of R_{DSon} (m Ω) 20	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra 10 ⁵ C (pF) 10 ⁴	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function of functi	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra 10 ⁵ C (pF) 10 ⁴ 10 ³	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function of functi	$V_{DS}\!>\!I_D\! imes I_D$	v _G R _{D5on} s: drain o voltage	current a ; typical	
Fig 5. Fo dra 10 ⁵ C (pF) 10 ⁴	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a	W as a function of	Fig 6. Transfer of function of functi	$V_{DS}\!>\!I_D\! imes I$ characteristics	VG CDSON S: drain (Voltage	current a ; typical	
Fig 5. Fo dra 10 ⁵ C (pF) 10 ⁴ 10 ³	$T_j = 25 ^{\circ}C; V_{DS} = 25$ rward transconductance a ain current; typical values	$\frac{003aa7623}{C_{rss}}$	Fig 6. Transfer of function of functi	$V_{DS} > I_D \gg H$ characteristics of gate-source	VG Coson voltage		
Fig 5. Fo dra 10 ⁵ C (pF) 10 ⁴ 10 ³ 10 ² 10 ⁻¹	$T_{j} = 25 ^{\circ}C; V_{DS} = 25$ ward transconductance at a current; typical values $I = 1$	$\frac{003aa/623}{C_{rss}}$	Fig 6. Transfer of function of (m_{Ω}) 20 10 10 10 10 10 10 10 10 10 10 10 10 10	$V_{DS} > I_D \gg H$ characteristics of gate-source	VG RDSon S: drain of Voltage	V _{GS} (V)	values

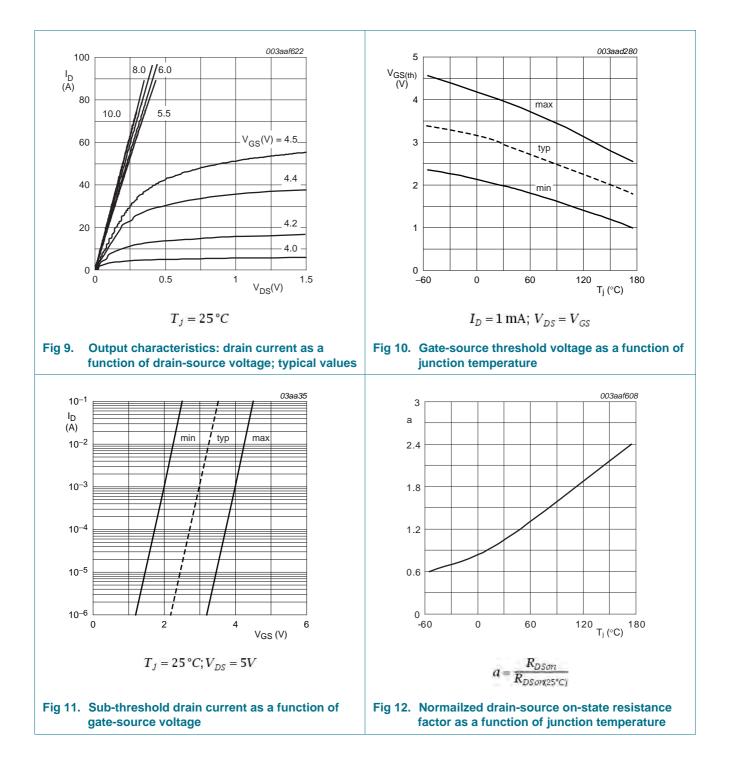
Table 6. Characteristics ...continued

Parameter

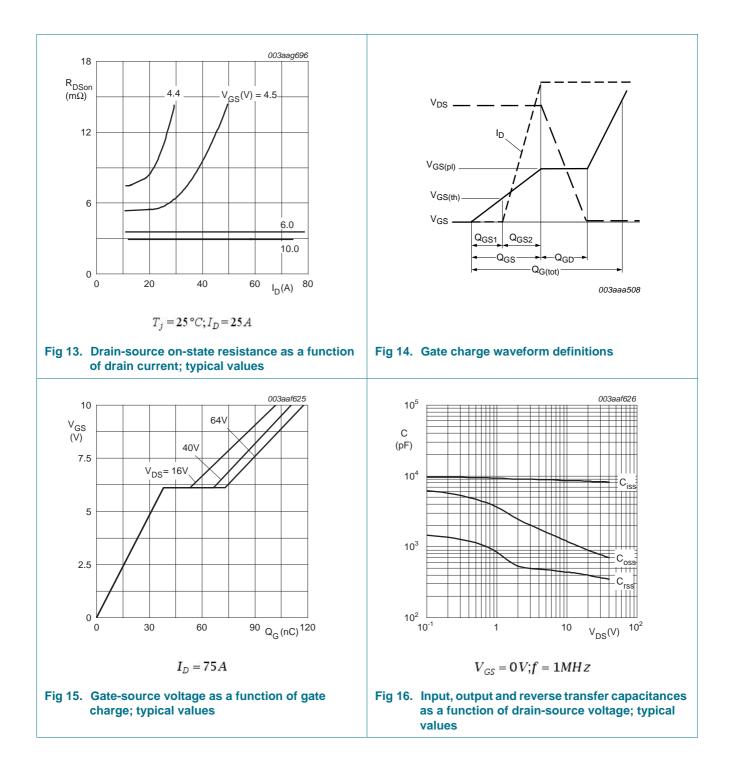
Conditions

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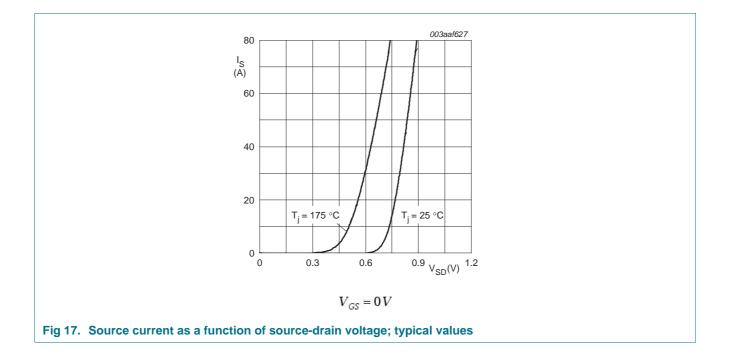
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7. Package outline

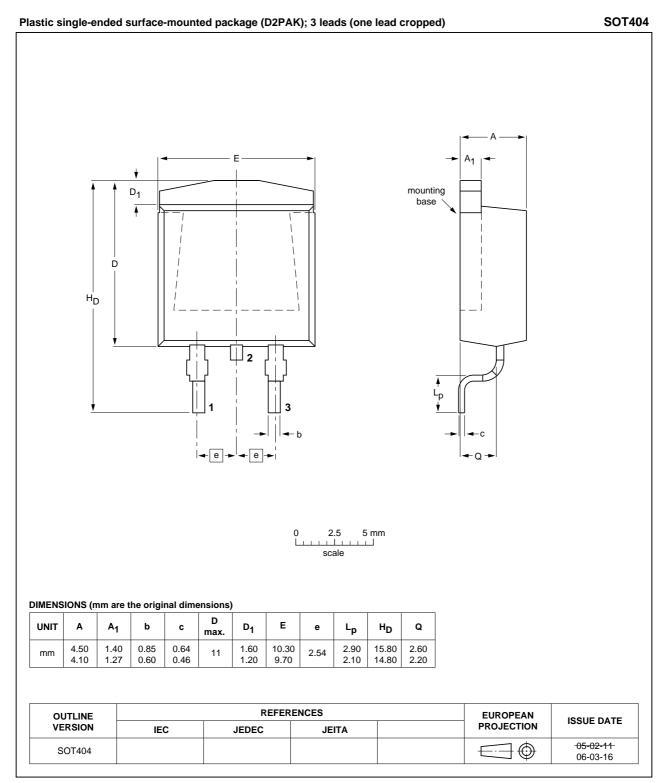


Fig 18. Package outline SOT404 (D2PAK)

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8. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
PSMN3R3-80BS v.2	20120229	Product data sheet	-	PSMN3R3-80BS v.1
Modifications:	 Status changed 	from objective to product.		
	 Various changes 	s to content.		
PSMN3R3-80BS v.1	20110928	Objective data sheet	-	-

9. Legal information

9.1 Data sheet status

Document status[1][2]	Product status ^[3]	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".

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