N-channel TrenchMOS standard level FET

Rev. 04 — 16 June 2010

**Product data sheet** 

## 1. Product profile

### 1.1 General description

Standard level gate drive N-channel enhancement mode Field-Effect Transistor (FET) in a plastic package using advanced TrenchMOS technology. This product has been designed and qualified to the appropriate AEC standard for use in high performance automotive applications.

### **1.2 Features and benefits**

- AEC Q101 compliant
- Avalanche robust

### 1.3 Applications

- 12V Motor, lamp and solenoid loads
- High performance automotive power systems
- High performance Pulse Width Modulation (PWM) applications

- Suitable for standard level gate drive
- Suitable for thermally demanding environment up to 175°C rating



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### 1.4 Quick reference data

Quick reference data								
Parameter	Conditions		Min	Тур	Мах	Unit		
drain-source voltage	T <sub>j</sub> ≥ 25 °C; T <sub>j</sub> ≤ 175 °C		-	-	40	V		
drain current	V <sub>GS</sub> = 10 V; T <sub>mb</sub> = 25 °C; see <u>Figure 1</u> ; see <u>Figure 3</u>	<u>[1]</u>	-	-	100	A		
total power dissipation	T <sub>mb</sub> = 25 °C; see <u>Figure 2</u>		-	-	203	W		
aracteristics								
drain-source on-state resistance	$\label{eq:VGS} \begin{array}{l} V_{GS} = 10 \text{ V}; \text{ I}_{D} = 25 \text{ A}; \\ T_{j} = 25 \ ^{\circ}\text{C}; \\ \text{see } \underline{\text{Figure 11}}; \text{ see } \underline{\text{Figure 12}} \end{array}$		-	3	3.6	mΩ		
e ruggedness								
non-repetitive drain-source avalanche energy	$ \begin{split} I_D &= 100 \text{ A};  V_{sup} \leq 40 \text{ V}; \\ R_{GS} &= 50  \Omega;  V_{GS} = 10  \text{V}; \\ T_{j(\text{init})} &= 25 ^\circ\text{C}; \text{ unclamped} \end{split} $		-	-	292	mJ		
characteristics								
gate-drain charge	$\label{eq:V_GS} \begin{array}{l} V_{GS} = 10 \; V; \; I_D = 25 \; A; \\ V_{DS} = 32 \; V; \; T_j = 25 \; ^\circ C; \\ \text{see } \underline{Figure 14}; \; \text{see } \underline{Figure 13} \end{array}$		-	35	-	nC		
	Parameter         drain-source         voltage         drain current         total power         dissipation         aracteristics         drain-source         on-state         resistance         e ruggedness         non-repetitive         avalanche energy         characteristics	ParameterConditionsdrain-source voltage $T_j \ge 25 \ ^\circ C; \ T_j \le 175 \ ^\circ C$ drain current $V_{GS} = 10 \ V; \ T_{mb} = 25 \ ^\circ C;$ see Figure 1; see Figure 3total power dissipation $T_{mb} = 25 \ ^\circ C;$ see Figure 2total power dissipation $T_{mb} = 25 \ ^\circ C;$ see Figure 2drain-source on-state resistance $V_{GS} = 10 \ V; \ I_D = 25 \ A;$ $T_j = 25 \ ^\circ C;$ see Figure 11; see Figure 12e ruggedness $I_D = 100 \ A; \ V_{sup} \le 40 \ V;$ $R_{GS} = 50 \ \Omega; \ V_{GS} = 10 \ V;$ $T_{j(init)} = 25 \ ^\circ C;$ unclampedcharacteristics $V_{GS} = 10 \ V; \ I_D = 25 \ A;$ $T_{j(init)} = 25 \ ^\circ C;$ gate-drain charge $V_{GS} = 10 \ V; \ I_D = 25 \ A;$ $V_{DS} = 32 \ V; \ T_j = 25 \ ^\circ C;$	$\begin{tabular}{ c c c c } \hline Parameter & Conditions \\ \hline drain-source & T_j \ge 25 \ ^\circ C; \ T_j \le 175 \ ^\circ C & \ voltage & \ T_j \ge 25 \ ^\circ C; \ T_j \le 175 \ ^\circ C & \ voltage & \ T_{mb} = 25 \ ^\circ C; & \ I1 & \ see \ Figure 1; \ see \ Figure 3 & \ T_{mb} = 25 \ ^\circ C; \ see \ Figure 2 & \ T_{mb} = 25 \ ^\circ C; \ see \ Figure 2 & \ T_{mb} = 25 \ ^\circ C; \ see \ Figure 1 & \ See \ $	$\begin{array}{c c c c c c } \hline Parameter & Conditions & Min \\ \hline drain-source & T_j \ge 25 \ ^\circ C; \ T_j \le 175 \ ^\circ C & - \\ \hline voltage & & & & \\ \hline drain current & V_{GS} = 10 \ ^\vee, \ T_{mb} = 25 \ ^\circ C; & & & \\ \hline drain current & T_{mb} = 25 \ ^\circ C; \ see \ Figure 3 & & \\ \hline total power & T_{mb} = 25 \ ^\circ C; \ see \ Figure 2 & - \\ \hline drain-source & V_{GS} = 10 \ ^\vee, \ ^I_D = 25 \ ^\circ, \ c; \\ \hline drain-source & T_j = 25 \ ^\circ C; \\ \hline resistance & see \ Figure 11; \ see \ Figure 12 & & \\ \hline e \ ruggedness & & \\ \hline non-repetitive & I_D = 100 \ ^\vee, \ ^V_{sup} \le 40 \ ^\vee; & - \\ \hline drain-source & R_{GS} = 50 \ ^\vee, \ ^V_{GS} = 10 \ ^\vee; \ ^V_{gS} = 32 \ ^\vee; \ ^V_{gS} = 32 \ ^\vee; \ ^V_{gS} = 25 \ ^\vee; \ ^V_{gS} = 32 \ ^\vee; \ ^V_{gS} = 25 \ ^\vee; \ ^V_{gS} = 32 \ ^\vee; \ ^V_{gS} = 25 \ ^\vee; \ ^V_{gS} = 32 \ ^\vee; \ ^V_{gS} = 25 \ ^\vee; \ ^V_{gS} = 10 \ ^\vee; \ ^V_{gS} = 10 \ ^\vee; \ ^V_{gS} = 10 \ ^\vee; \ ^V_{gS} = 32 \ ^\vee; \ ^V_{gS} = 32 \ ^\vee; \ ^V_{gS} = 25 \ ^\vee; \ ^V_{gS} = 10 \ ^\vee; \ ^V_{gS} = 10 \ ^\vee; \ ^V_{gS} = 10 \ ^\vee; \ ^V_{gS} = 32 \ ^\vee; \ ^V_{gS} = 25 \ ^\vee; \ ^V_{gS} = 10 \ ^\vee; \ ^V_{gS} = 32 \ ^\vee; \ ^V_{gS$	$\begin{array}{c c c c c c c } \hline Parameter & Conditions & Min & Typ \\ \hline drain-source & T_j \geq 25 \ ^\circ C; \ T_j \leq 175 \ ^\circ C & - & - \\ \hline voltage & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c c c c c c c } \hline Parameter & Conditions & Min & Typ & Max \\ \hline drain-source & T_j \geq 25 \ ^\circ C; \ T_j \leq 175 \ ^\circ C & - & - & 40 \\ \hline drain current & V_{GS} = 10 \ ^\circ Y; \ ^T_{mb} = 25 \ ^\circ C; & 11 & - & - & 100 \\ \hline see \ Figure 1; \ see \ Figure 3 & - & - & 203 \\ \hline total power & T_{mb} = 25 \ ^\circ C; \ see \ Figure 2 & - & - & 203 \\ \hline total power & T_{mb} = 25 \ ^\circ C; \ see \ Figure 2 & - & - & 203 \\ \hline total power & T_{mb} = 25 \ ^\circ C; \ see \ Figure 2 & - & - & 203 \\ \hline total power & T_{mb} = 25 \ ^\circ C; \ see \ Figure 12 & - & - & 203 \\ \hline total power & V_{GS} = 10 \ ^\circ Y; \ ^I_D = 25 \ ^\circ C; \\ resistance & see \ Figure 11; \ see \ Figure 12 & - & - & 3 & 3.6 \\ \hline non-repetitive & I_D = 100 \ ^\circ A; \ ^V_{SS} = 10 \ ^\circ Y; \ See \ ^I_D = 100 \ ^\circ Y_{GS} = 10 \ ^\circ Y; \ ^I_D = 25 \ ^\circ C; \ unclamped & - & - & 292 \\ \hline e \ ruggedness & & & & & & & & & & & & & & & & & & $		

[1] Continuous current is limited by package.

## 2. Pinning information

Table 2.	Pinning	g information		
Pin	Symbol	Description	Simplified outline	Graphic symbol
1	G	gate		_
2	D	drain	mb	
3	S	source		
mb	D	mounting base; connected to drain		mbb076 S

SOT404 (D2PAK)

## 3. Ordering information

Table 3. Ordering information					
Type number	Package				
	Name	Description	Version		
BUK763R6-40C	D2PAK	plastic single-ended surface-mounted package (D2PAK); 3 leads (one lead cropped)	SOT404		

BUK763R6-40C Product data sheet

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## 4. Limiting values

#### Table 4. Limiting values

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

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
-				141111	iyp		
V <sub>DS</sub>	drain-source voltage	T <sub>j</sub> ≥ 25 °C; T <sub>j</sub> ≤ 175 °C		-	-	40	V
V <sub>DGR</sub>	drain-gate voltage	$R_{GS} = 20 \text{ k}\Omega$		-	-	40	V
V <sub>GS</sub>	gate-source voltage		<u>[1]</u>	-20	-	20	V
I <sub>D</sub>	drain current	$T_{mb} = 25 \text{ °C}; V_{GS} = 10 \text{ V}; \text{ see } \frac{\text{Figure 1}}{\text{Figure 3}};$	<u>[2]</u>	-	-	167	A
		$T_{mb}$ = 100 °C; $V_{GS}$ = 10 V; see <u>Figure 1</u>	<u>[3]</u>	-	-	100	А
		$T_{mb}$ = 25 °C; $V_{GS}$ = 10 V; see <u>Figure 1</u> ; see <u>Figure 3</u>	<u>[3]</u>	-	-	100	А
I <sub>DM</sub>	peak drain current	$T_{mb}$ = 25 °C; $t_p \le 10 \ \mu$ s; pulsed; see <u>Figure 3</u>		-	-	668	A
P <sub>tot</sub>	total power dissipation	T <sub>mb</sub> = 25 °C; see <u>Figure 2</u>		-	-	203	W
T <sub>stg</sub>	storage temperature			-55	-	175	°C
Tj	junction temperature			-55	-	175	°C
Source-drai	n diode						
I <sub>S</sub>	source current	T <sub>mb</sub> = 25 °C	[3]	-	-	100	А
			[2]	-	-	167	А
I <sub>SM</sub>	peak source current	$t_p \le 10 \ \mu s$ ; pulsed; $T_{mb} = 25 \ ^{\circ}C$		-	-	668	А
Avalanche r	uggedness						
E <sub>DS(AL)S</sub>	non-repetitive drain-source avalanche energy	$\label{eq:ld} \begin{array}{l} I_D = 100 \text{ A}; \ V_{sup} \leq 40 \text{ V}; \ R_{GS} = 50 \ \Omega; \\ V_{GS} = 10 \text{ V}; \ T_{j(init)} = 25 \ ^\circ\text{C}; \ unclamped \end{array}$		-	-	292	mJ
	avalanche energy						

[1] -20V accumulated duration not to exceed 168 hrs.

[2] Current is limited by power dissipation chip rating.

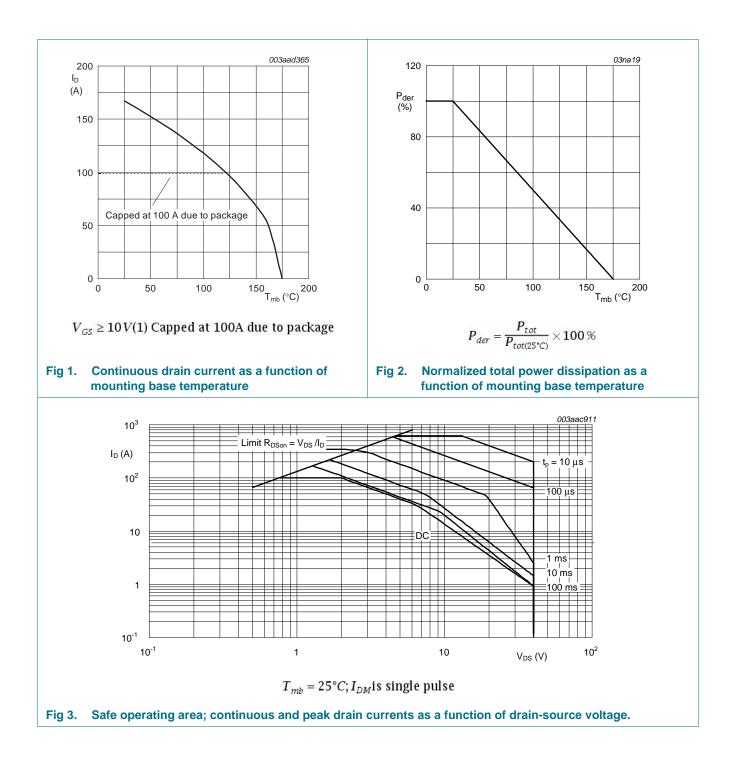
[3] Continuous current is limited by package.

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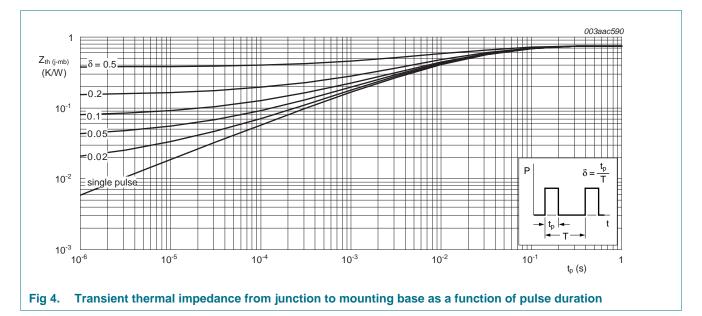
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## 5. Thermal characteristics

Table 5.	Thermal characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
R <sub>th(j-mb)</sub>	thermal resistance from junction to mounting base	see Figure 4	-	-	0.74	K/W
R <sub>th(j-a)</sub>	thermal resistance from junction to ambient	mounted on printed circuit board; minimum footprint; SOT404 package	-	-	50	K/W



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## 6. Characteristics

Table 6.	Characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Static cha	aracteristics					
V <sub>(BR)DSS</sub>	drain-source	$I_D = 0.25 \text{ mA}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	40	-	-	V
	breakdown voltage	$I_D = 0.25 \text{ mA}; V_{GS} = 0 \text{ V}; T_j = -55 \text{ °C}$	36	-	-	V
V <sub>GS(th)</sub>	gate-source threshold voltage	I <sub>D</sub> = 1 mA; V <sub>DS</sub> = V <sub>GS</sub> ; T <sub>j</sub> = 25 °C; see <u>Figure 10</u>	2	3	4	V
		I <sub>D</sub> = 1 mA; V <sub>DS</sub> = V <sub>GS</sub> ; T <sub>j</sub> = 175 °C; see <u>Figure 10</u>	1	-	-	V
		I <sub>D</sub> = 1 mA; V <sub>DS</sub> = V <sub>GS</sub> ; T <sub>j</sub> = -55 °C; see <u>Figure 10</u>	-	-	4.4	V
I <sub>DSS</sub>	drain leakage current	V <sub>DS</sub> = 40 V; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 175 °C	-	-	500	μA
		V <sub>DS</sub> = 40 V; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C	-	0.02	1	μA
I <sub>GSS</sub>	gate leakage current	V <sub>DS</sub> = 0 V; V <sub>GS</sub> = 20 V; T <sub>j</sub> = 25 °C	-	2	100	nA
		$V_{DS} = 0 V; V_{GS} = -20 V; T_j = 25 °C$	-	2	100	nA
R <sub>DSon</sub>	drain-source on-state resistance	V <sub>GS</sub> = 10 V; I <sub>D</sub> = 25 A; T <sub>j</sub> = 175 °C; see <u>Figure 11</u>	-	-	7.2	mΩ
		V <sub>GS</sub> = 10 V; I <sub>D</sub> = 25 A; T <sub>j</sub> = 25 °C; see <u>Figure 11</u> ; see <u>Figure 12</u>	-	3	3.6	mΩ
Dynamic	characteristics					
Q <sub>G(tot)</sub>	total gate charge	$I_D = 25 \text{ A}; V_{DS} = 32 \text{ V}; V_{GS} = 10 \text{ V};$	-	97	-	nC
Q <sub>GS</sub>	gate-source charge	$T_j = 25 \text{ °C}; \text{ see } Figure 13; \text{ see } Figure 14$	-	21	-	nC
$Q_{GD}$	gate-drain charge	$I_D = 25 \text{ A}; V_{DS} = 32 \text{ V}; V_{GS} = 10 \text{ V};$ $T_j = 25 ^\circ\text{C}; \text{ see } \frac{\text{Figure } 14}{\text{Figure } 14}; \text{ see } \frac{\text{Figure } 13}{\text{Figure } 13}$	-	35	-	nC
C <sub>iss</sub>	input capacitance	$V_{GS} = 0 V; V_{DS} = 25 V; f = 1 MHz;$	-	4391	5708	pF
C <sub>oss</sub>	output capacitance	$T_j = 25 \text{ °C}; \text{ see } Figure 15$	-	800	1040	pF
C <sub>rss</sub>	reverse transfer capacitance		-	535	696	pF
t <sub>d(on)</sub>	turn-on delay time	$V_{DS}$ = 30 V; $R_{L}$ = 1.2 $\Omega$ ; $V_{GS}$ = 10 V;	-	40	-	ns
t <sub>r</sub>	rise time	R <sub>G(ext)</sub> = 10 Ω; T <sub>j</sub> = 25 °C	-	95	-	ns
t <sub>d(off)</sub>	turn-off delay time		-	129	-	ns
t <sub>f</sub>	fall time		-	92	-	ns
L <sub>D</sub>	internal drain inductance	from drain lead 6 mm from package to centre of die ; $T_i = 25 ^\circ\text{C}$	-	4.5	-	nH
		from contact screw on mounting base to centre of die ; $T_j = 25 \text{ °C}$	-	3.5	-	nH
L <sub>S</sub>	internal source inductance	from source lead to source bond pad ; $T_j = 25 \text{ °C}$	-	7.5	-	nH
Source-d	rain diode					
V <sub>SD</sub>	source-drain voltage	I <sub>S</sub> = 25 A; V <sub>GS</sub> = 0 V; T <sub>j</sub> = 25 °C; see <u>Figure 16</u>	-	0.83	1.2	V
t <sub>rr</sub>	reverse recovery time	$I_{S} = 20 \text{ A}; \text{ d}I_{S}/\text{d}t = -100 \text{ A}/\mu\text{s};$	-	44	-	ns
Qr	recovered charge	$V_{GS}$ = -10 V; $V_{DS}$ = 30 V; $T_j$ = 25 °C	-	57	-	nC

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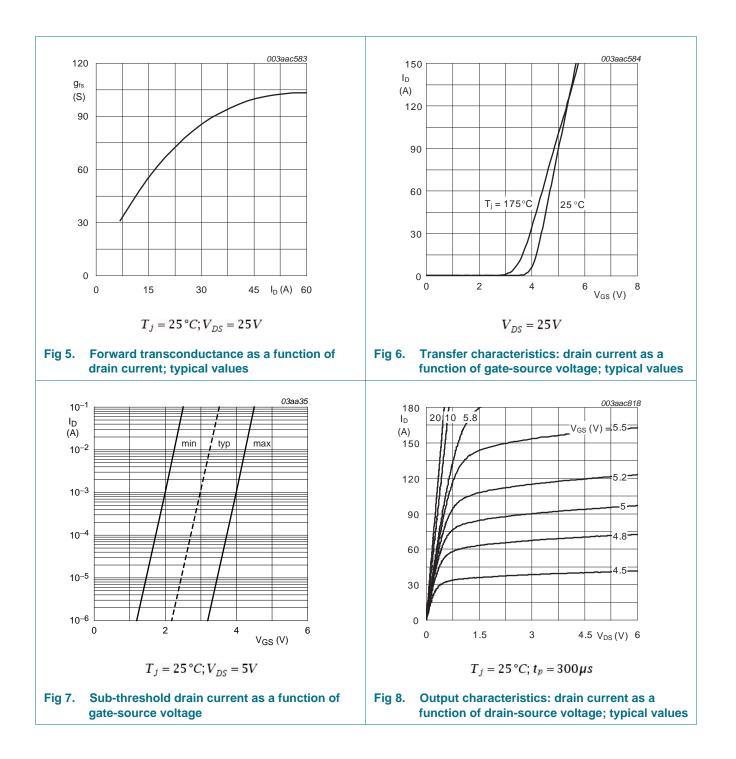
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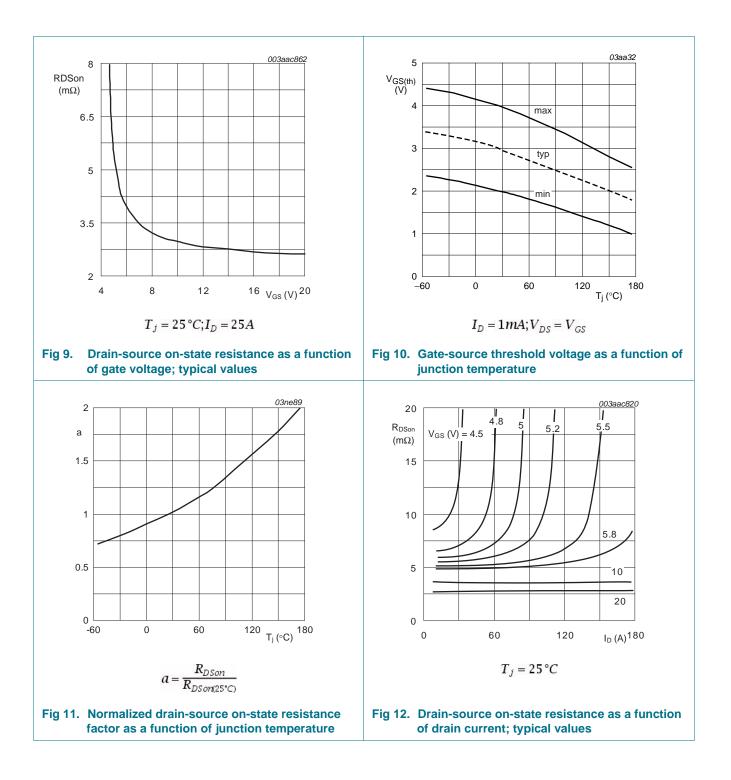


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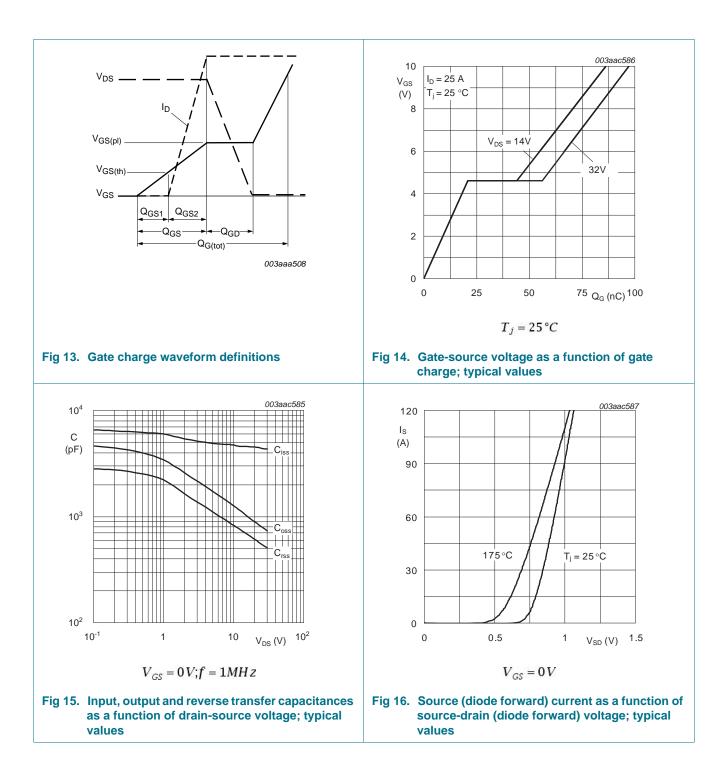
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## 7. Package outline

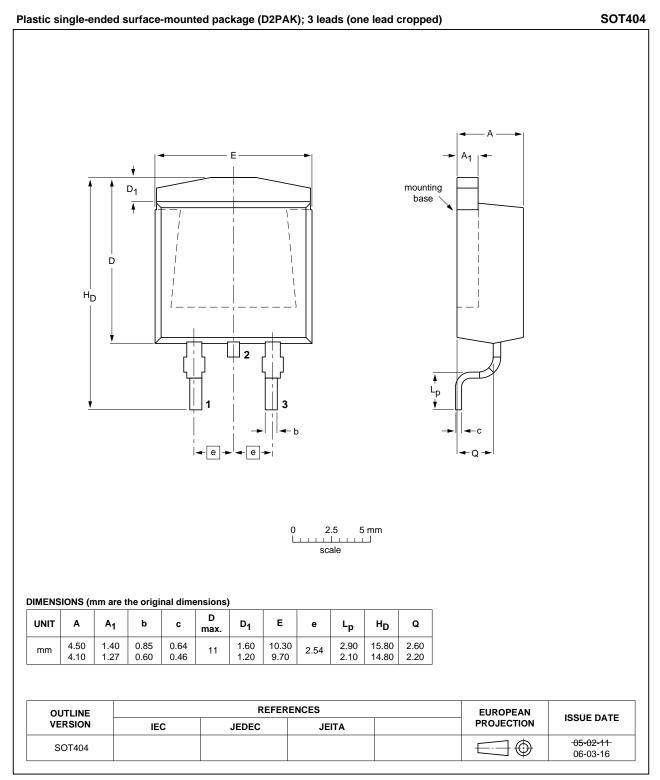


Fig 17. Package outline SOT404 (D2PAK)

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## 8. Revision history

Table 7.Revision h	istory			
Document ID	Release date	Data sheet status	Change notice	Supersedes
BUK763R6-40C v.4	20100616	Product data sheet	-	BUK763R6-40C v.3
Modifications:	<ul> <li>Various ch</li> </ul>	anges to content.		
BUK763R6-40C v.3	20100602	Product data sheet	-	-

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## 9. Legal information

#### 9.1 Data sheet status

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