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BUK7Y18-55B

N-channel TrenchMOS standard level FET

Rev. 04 — 7 April 2010

Product data sheet

1. Product profile

1.1 General description

Standard level N-channel enhancement mode Field-Effect Transistor (FET) in a plastic package using NXP High-Performance Automotive (HPA) TrenchMOS technology. This product has been designed and qualified to the appropriate AEC standard for use in automotive critical applications.

1.2 Features and benefits

- Q101 compliant
- Suitable for standard level gate drive sources
- Suitable for thermally demanding environments due to 175 °C rating

1.3 Applications

- 12 V and 24 V loads
- Advanced braking systems (ABS)
- Automotive systems

- Engine management
- General purpose power switching
- Motors, lamps and solenoids

1.4 Quick reference data

Table 1. Quick reference data

Parameter	Conditions	Min	Тур	Max	Unit
drain-source voltage	T _j ≥ 25 °C; T _j ≤ 175 °C	-	-	55	V
drain current	$V_{GS} = 10 \text{ V}; T_{mb} = 25 \text{ °C};$ see <u>Figure 1</u> ; see <u>Figure 4</u>	-	-	47.4	Α
total power dissipation	T _{mb} = 25 °C; see <u>Figure 2</u>	-	-	85	W
acteristics					
drain-source on-state resistance	$V_{GS} = 10 \text{ V}; I_D = 20 \text{ A};$ $T_j = 25 \text{ °C}; \text{ see } \frac{\text{Figure } 12}{\text{see } \frac{\text{Figure } 13}};$	-	12.7	18	mΩ
ruggedness					
non-repetitive drain-source avalanche energy	$I_D = 47.4 \text{ A}; V_{sup} \le 55 \text{ V};$ $R_{GS} = 50 \Omega; V_{GS} = 10 \text{ V};$ $T_{j(init)} = 25 ^{\circ}C; unclamped$	-	-	77	mJ
naracteristics					
gate-drain charge	$I_D = 20 \text{ A}; V_{DS} = 44 \text{ V};$ $V_{GS} = 10 \text{ V}; \text{ see } \frac{\text{Figure } 14}{\text{Figure } 14}$	-	8.1	-	nC
	drain-source voltage drain current total power dissipation acteristics drain-source on-state resistance ruggedness non-repetitive drain-source avalanche energy	drain-source voltage $ T_{j} \geq 25 \ ^{\circ}\text{C}; \ T_{j} \leq 175 \ ^{\circ}\text{C} $ woltage $ T_{j} \geq 25 \ ^{\circ}\text{C}; \ T_{j} \leq 175 \ ^{\circ}\text{C} $ woltage $ T_{mb} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 4} $ total power dissipation $ T_{mb} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 2} $ total power dissipation $ T_{mb} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 2} $ $ T_{mb} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 2} $ $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 13} $ and $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 13} $ and $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 13} $ and $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 13} $ and $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 13} $ and $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 14}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 14}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 14}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 14}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 12}; $ where $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 13}; $ and $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 13}; $ and $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 14}; $ and $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 14}; $ and $ T_{j} = 25 \ ^{\circ}\text{C}; \ \text{see Figure 14}; $	drain-source voltage $T_{j} \geq 25 \text{ °C}; T_{j} \leq 175 \text{ °C} \qquad -$ voltage $drain \text{ current} \qquad V_{GS} = 10 \text{ V}; T_{mb} = 25 \text{ °C}; \\ \text{see } \underline{\text{Figure 1}}; \text{ see } \underline{\text{Figure 4}} \qquad -$ total power dissipation $deteristics$ $drain-source \qquad V_{GS} = 10 \text{ V}; I_{D} = 20 \text{ A}; \\ T_{j} = 25 \text{ °C}; \text{ see } \underline{\text{Figure 2}} \qquad -$ on-state $T_{j} = 25 \text{ °C}; \text{ see } \underline{\text{Figure 12}}; \\ \text{resistance} \qquad \text{see } \underline{\text{Figure 13}} \qquad -$ $drain-source \qquad I_{D} = 47.4 \text{ A}; V_{sup} \leq 55 \text{ V}; \\ drain-source \qquad R_{GS} = 50 \Omega; V_{GS} = 10 \text{ V}; \\ \text{avalanche energy} \qquad T_{j(init)} = 25 \text{ °C}; \text{ unclamped}$ $drain-source \qquad R_{GS} = 50 \Omega; V_{GS} = 10 \text{ V}; \\ \text{avalanche energy} \qquad T_{j(init)} = 25 \text{ °C}; \text{ unclamped}$	drain-source voltage $T_{j} \geq 25 ^{\circ}\text{C}; T_{j} \leq 175 ^{\circ}\text{C} \qquad - \qquad -$ voltage $\text{drain current} \qquad V_{GS} = 10 \text{V}; T_{mb} = 25 ^{\circ}\text{C}; \qquad - \qquad -$ see $ \begin{array}{c} \text{Figure 1}; \text{see Figure 4} \\ \text{total power} \\ \text{dissipation} \end{array}$ $\text{total power} \\ \text{deteristics} \\ \text{drain-source} \qquad V_{GS} = 10 \text{V}; I_{D} = 20 \text{A}; \qquad - \qquad 12.7$ on-state $T_{j} = 25 ^{\circ}\text{C}; \text{see Figure 12}; \\ \text{resistance} \qquad \text{see Figure 13} \\ \text{ruggedness} \\ \text{non-repetitive} \qquad I_{D} = 47.4 \text{A}; V_{sup} \leq 55 \text{V}; \qquad - \qquad -$ $\text{drain-source} \\ \text{avalanche energy} \qquad I_{D} = 47.4 \text{A}; V_{sup} \leq 55 \text{V}; \qquad - \qquad -$ $\text{drain-source} \\ \text{avalanche energy} \qquad I_{D} = 20 \text{A}; V_{DS} = 44 \text{V}; \qquad - \qquad 8.1$	drain-source voltage $T_{j} \geq 25 ^{\circ}\text{C}; T_{j} \leq 175 ^{\circ}\text{C} \qquad - \qquad 55$ drain current $V_{GS} = 10 \text{V}; T_{mb} = 25 ^{\circ}\text{C}; \qquad - \qquad 47.4$ see Figure 1; see Figure 4 $\text{total power dissipation}$ $Total $



2. Pinning information

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	S	source		
2	S	source	mb	D
3	S	source		
4	G	gate		
mb	D	mounting base; connected to drain	1 2 3 4	mbb076 S
			SOT669 (LFPAK)	

3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
BUK7Y18-55B	LFPAK	plastic single-ended surface-mounted package (LFPAK); 4 leads	SOT669

2 of 14

4. Limiting values

Table 4. Limiting values

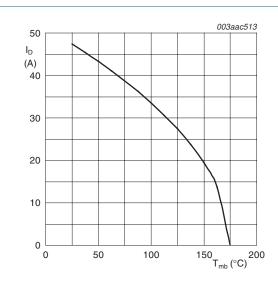
In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
V_{DS}	drain-source voltage	T _j ≥ 25 °C; T _j ≤ 175 °C		-	-	55	V
V _{DGR}	drain-gate voltage	$R_{GS} = 20 \text{ k}\Omega$		-	-	55	V
V _{GS}	gate-source voltage			-20	-	20	V
I _D	drain current	T_{mb} = 25 °C; V_{GS} = 10 V; see <u>Figure 1</u> ; see <u>Figure 4</u>		-	-	47.4	Α
		$T_{mb} = 100 ^{\circ}\text{C}; V_{GS} = 10 \text{V}; \text{see} \frac{\text{Figure 1}}{}$		-	-	33.5	Α
I _{DM}	peak drain current	T_{mb} = 25 °C; t_p ≤ 10 μs; pulsed; see Figure 4		-	-	189	Α
P _{tot}	total power dissipation	T _{mb} = 25 °C; see <u>Figure 2</u>		-	-	85	W
T _{stg}	storage temperature			-55	-	175	°C
T _j	junction temperature			-55	-	175	°C
Source-drain	diode						
Is	source current	T _{mb} = 25 °C		-	-	47.4	Α
I _{SM}	peak source current	$t_p \le 10 \ \mu s$; pulsed; $T_{mb} = 25 \ ^{\circ}C$		-	-	189	Α
Avalanche rug	gedness						
E _{DS(AL)S}	non-repetitive drain-source avalanche energy	$\begin{split} I_D &= 47.4 \text{ A; V}_{\text{sup}} \leq 55 \text{ V; R}_{\text{GS}} = 50 \Omega; \\ V_{\text{GS}} &= 10 \text{ V; T}_{j(\text{init})} = 25 \text{ °C; unclamped} \end{split}$		-	-	77	mJ
E _{DS(AL)R}	repetitive drain-source avalanche energy	see Figure 3	[1][2][3]	-	-	-	J

^[1] Single-pulse avalanche rating limited by maximum junction temperature of 175 $^{\circ}$ C.

^[2] Repetitive avalanche rating limited by an average junction temperature of 170 °C.

^[3] Refer to application note AN10273 for further information.



03na19 120 P_{der} (%) 80 40 0 _ 100 150 T_{mb} (°C)

 $P_{der} = \frac{P_{tot}}{P_{tot(25^{\circ}C)}} \times 100 \%$

Continuous drain current as a function of mounting base temperature

Normalized total power dissipation as a Fig 2. function of mounting base temperature

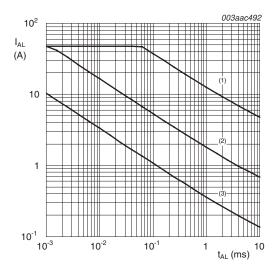
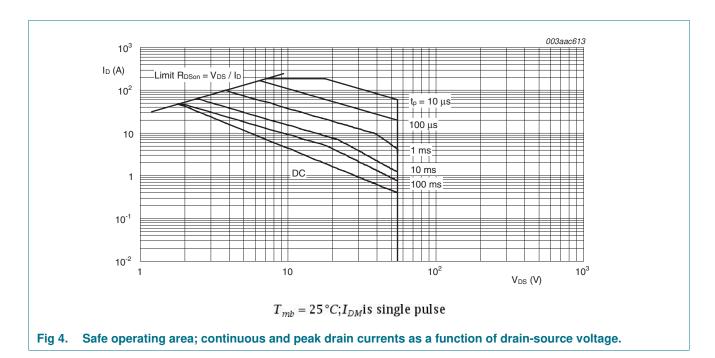


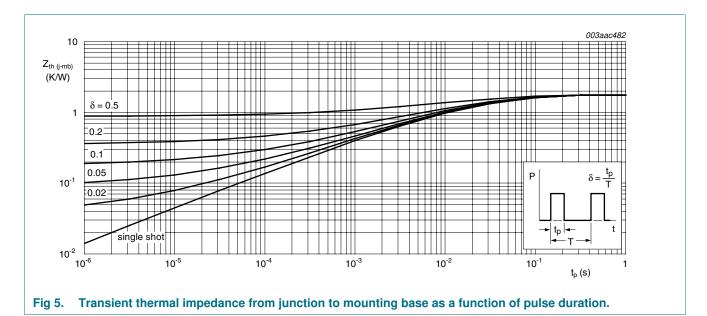
Fig 3. Single-pulse and repetitive avalanche rating; avalanche current as a function of avalanche time



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 5	-	-	1.76	K/W



6. Characteristics

Table 6. Characteristics

Table 6.	Characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Static cha	racteristics					
V _{(BR)DSS} drain-source breakdown voltage		$I_D = 250 \mu A; V_{GS} = 0 V; T_j = 25 °C$	55	-	-	V
	breakdown voltage	$I_D = 250 \mu A; V_{GS} = 0 V; T_j = -55 °C$	50	-	-	V
$V_{GS(th)}$	gate-source threshold voltage	$I_D = 1$ mA; $V_{DS} = V_{GS}$; $T_j = 25$ °C; see <u>Figure 10</u> ; see <u>Figure 11</u>	2	3	4	V
		$I_D = 1$ mA; $V_{DS} = V_{GS}$; $T_j = -55$ °C; see Figure 10	-	-	4.4	V
		$I_D = 1$ mA; $V_{DS} = V_{GS}$; $T_j = 175$ °C; see Figure 10	1	-	-	V
I _{DSS} drain leakage of	drain leakage current	$V_{DS} = 55 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$	-	0.02	1	μΑ
		$V_{DS} = 55 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 175 \text{ °C}$	-	-	500	μΑ
I _{GSS}	gate leakage current	$V_{DS} = 0 \text{ V}; V_{GS} = 20 \text{ V}; T_j = 25 \text{ °C}$	-	2	100	nA
		$V_{DS} = 0 \text{ V}; V_{GS} = -20 \text{ V}; T_j = 25 \text{ °C}$	-	2	100	nA
R _{DSon} drain-source or resistance	drain-source on-state resistance	$V_{GS} = 10 \text{ V}; I_D = 20 \text{ A}; T_j = 175 ^{\circ}\text{C};$ see Figure 12	-	-	37.8	mΩ
		$V_{GS} = 10 \text{ V}$; $I_D = 20 \text{ A}$; $T_j = 25 \text{ °C}$; see Figure 12; see Figure 13	-	12.7	18	mΩ
Dynamic	characteristics					
Q _{G(tot)}	total gate charge	$I_D = 20 \text{ A}; V_{DS} = 44 \text{ V}; V_{GS} = 10 \text{ V};$	-	21.9	-	nC
Q _{GS}	gate-source charge	see Figure 14	-	4.64	-	nC
Q_{GD}	gate-drain charge		-	8.1	-	nC
C _{iss}	input capacitance	$V_{GS} = 0 \text{ V}; V_{DS} = 25 \text{ V}; f = 1 \text{ MHz};$	-	947	1263	pF
C _{oss}	output capacitance	T _j = 25 °C; see <u>Figure 15</u>	-	223	268	pF
C_{rss}	reverse transfer capacitance		-	105	144	pF
t _{d(on)}	turn-on delay time	$V_{DS} = 30 \text{ V}; R_L = 1.5 \Omega; V_{GS} = 10 \text{ V};$	-	13	-	ns
t _r	rise time	$R_{G(ext)} = 10 \Omega$	-	20	-	ns
t _{d(off)}	turn-off delay time		-	34	-	ns
t _f	fall time		-	16	-	ns
Source-d	rain diode					
V_{SD}	source-drain voltage	$I_S = 20 \text{ A}$; $V_{GS} = 25 \text{ V}$; $T_j = 25 \text{ °C}$; see <u>Figure 16</u>	-	0.85	1.2	V
t _{rr}	reverse recovery time	$I_S = 20 \text{ A}; dI_S/dt = -100 \text{ A/}\mu\text{s}; V_{GS} = 0 \text{ V};$	-	36	-	ns
Q _r	recovered charge	$V_{DS} = 30 \text{ V}$	-	55	-	nC

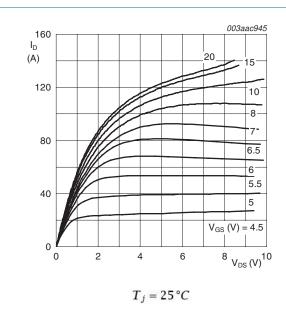


Fig 6. Output characteristics: drain current as a function of drain-source voltage; typical values.

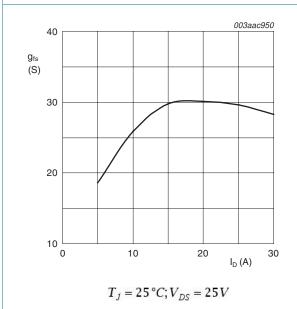


Fig 8. Forward transconductance as a function of drain current; typical values.

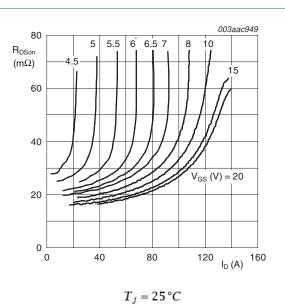


Fig 7. Drain-source on-state resistance as a function of drain current; typical values.

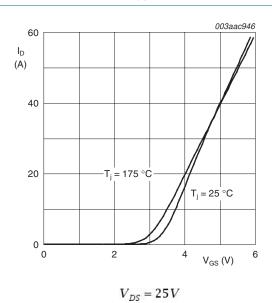


Fig 9. Transfer characteristics: drain current as a function of gate-source voltage; typical values.

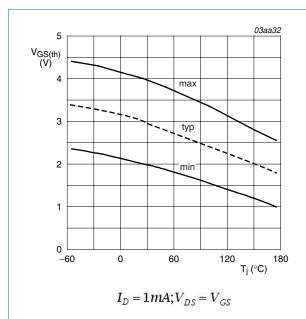
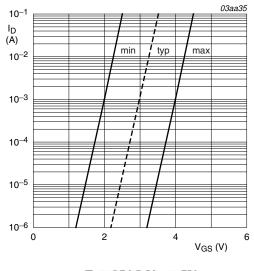


Fig 10. Gate-source threshold voltage as a function of junction temperature



 $T_j = 25 \,^{\circ}C; V_{DS} = 5V$

Fig 11. Sub-threshold drain current as a function of gate-source voltage

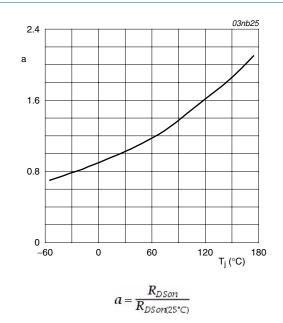


Fig 12. Normalized drain-source on-state resistance factor as a function of junction temperature

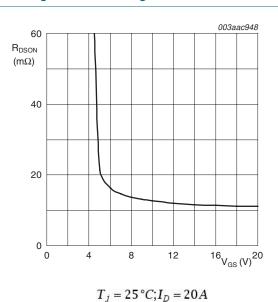


Fig 13. Drain-source on-state resistance as a function of gate-source voltage; typical values.

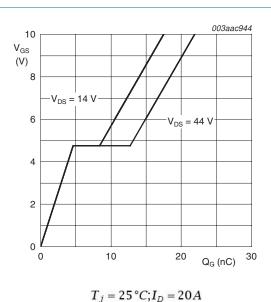
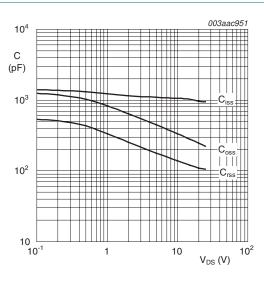


Fig 14. Gate-source voltage as a function of gate charge; typical values.



 $V_{GS} = 0V; f = 1MHz$

Fig 15. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values.

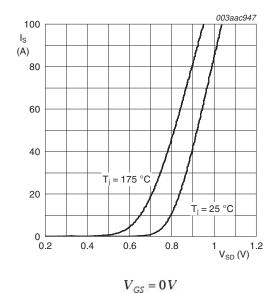


Fig 16. Source (diode forward) current as a function of source-drain (diode forward) voltage; typical values.

7. Package outline

Plastic single-ended surface-mounted package (LFPAK); 4 leads

SOT669

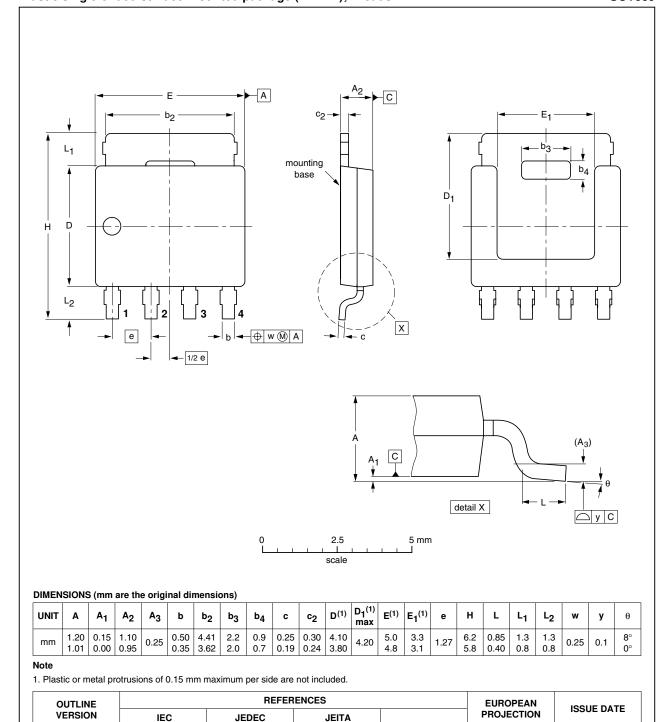


Fig 17. Package outline SOT669 (LFPAK)

BUK7Y18-55B

MO-235

04-10-13

06-03-16

SOT669



8. Revision history

Table 7. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BUK7Y18-55B_4	20100407	Product data sheet	-	BUK7Y18-55B_3
Modifications:	 Status chair 	nged from objective to pro	oduct.	
BUK7Y18-55B_3	20100218	Objective data sheet	-	BUK7Y18-55B_2

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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10. Contact information

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BUK7Y18-55B

N-channel TrenchMOS standard level FET

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