1. General description

Logic level N-channel MOSFET in an LFPAK56 (Power SO8) package using TrenchMOS technology. This product is designed and qualified for use in a wide range of power supply & motor control equipment.

2. Features and benefits

- Advanced TrenchMOS provides low R_{DSon} and low gate charge
- · Logic level gate operation
- Avalanche rated, 100 % tested
- LFPAK provides maximum power density in a Power SO8 package

3. Applications

- Synchronous rectification in power supply equipment
- Chargers & adaptors with V_{out} < 10 V
- Fast charge & USB-PD applications
- Battery powered motor control
- LED lighting & TV backlight

4. Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
V _{DS}	drain-source voltage	25 °C ≤ T _j ≤ 175 °C		-	-	100	V
I _D	drain current	V _{GS} = 5 V; T _{mb} = 25 °C; <u>Fig. 2</u>		-	-	56	Α
P _{tot}	total power dissipation	T _{mb} = 25 °C; <u>Fig. 1</u>		-	-	167	W
Static characte	Static characteristics						
R _{DSon}	drain-source on-state resistance	$V_{GS} = 5 \text{ V}; I_D = 15 \text{ A}; T_j = 25 \text{ °C}; Fig. 11$		-	14.6	19	mΩ
Dynamic characteristics							
Q_{GD}	gate-drain charge	$I_D = 15 \text{ A}; V_{DS} = 80 \text{ V}; V_{GS} = 5 \text{ V};$ $T_j = 25 \text{ °C}; \underline{\text{Fig. 13}}; \underline{\text{Fig. 14}}$		-	14.1	-	nC





5. Pinning information

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	S	source	mb	D I
2	S	source		
3	S	source	[qj	G T T
4	G	gate	<u>o o o o</u>	mbb076 S
mb	D	mounting base; connected to drain	1 2 3 4 LFPAK56; Power- SO8 (SOT669)	

6. Ordering information

Table 3. Ordering information

Type number	Package				
	Name	Description	Version		
PSMN019-100YL	LFPAK56; Power-SO8	Plastic single-ended surface-mounted package (LFPAK56; Power-SO8); 4 leads	SOT669		

7. Marking

Table 4. Marking codes

Type number	Marking code
PSMN019-100YL	19L100

8. 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	25 °C ≤ T _j ≤ 175 °C	-	100	V
V_{DGR}	drain-gate voltage	R_{GS} = 20 k Ω	-	100	V
V_{GS}	gate-source voltage		-20	20	V
P _{tot}	total power dissipation	T _{mb} = 25 °C; <u>Fig. 1</u>	-	167	W
I _D	drain current	V _{GS} = 5 V; T _{mb} = 25 °C; <u>Fig. 2</u>	-	56	Α
		V _{GS} = 5 V; T _{mb} = 100 °C; <u>Fig. 2</u>	-	40	Α
I _{DM}	peak drain current	pulsed; $t_p \le 10 \ \mu s$; $T_{mb} = 25 \ ^{\circ}C$; Fig. 3	-	226	Α
T _{stg}	storage temperature		-55	175	°C

PSMN019-100YL

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Symbol	Parameter	Conditions		Min	Max	Unit
Tj	junction temperature			-55	175	°C
Source-dra	in diode				'	
I _S	source current	T _{mb} = 25 °C		-	56	Α
I _{SM}	peak source current	pulsed; $t_p \le 10 \ \mu s$; $T_{mb} = 25 \ ^{\circ}C$		-	226	Α
Avalanche	ruggedness					
E _{DS(AL)S}	non-repetitive drain-source avalanche energy	I_D = 56 A; $V_{sup} \le 100$ V; R_{GS} = 50 Ω; V_{GS} = 5 V; $T_{j(init)}$ = 25 °C; unclamped; Fig. 4	[1][2]	-	94.1	mJ

- [1] Single-pulse avalanche rating limited by maximum junction temperature of 175 °C.
- [2] Refer to application note AN10273 for further information.

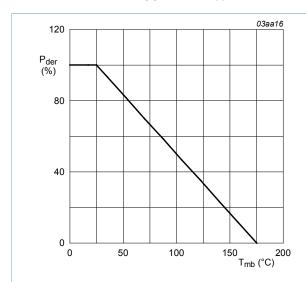


Fig. 1. Normalized total power dissipation as a function of mounting base temperature

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

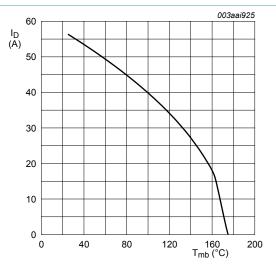


Fig. 2. Continuous drain current as a function of mounting base temperature

$$V_{GS} \ge 5V$$

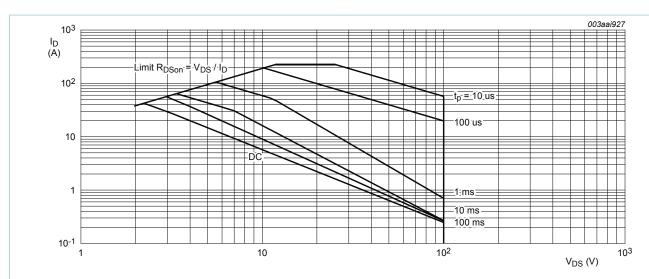
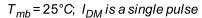


Fig. 3. Safe operating area; continuous and peak drain currents as a function of drain-source voltage



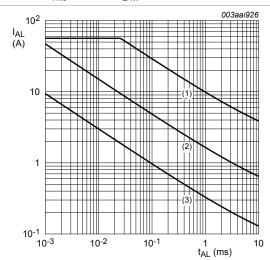


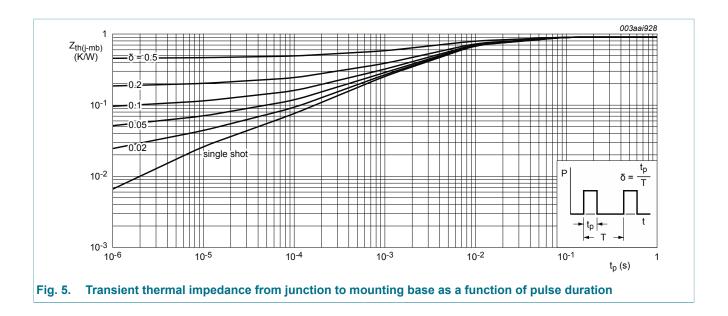
Fig. 4. Avalanche rating; avalanche current as a function of avalanche time

(1)
$$T_{j(init)} = 25$$
°C; (2) $T_{j(init)} = 150$ °C; (3) Repetitive Avalanche

9. Thermal characteristics

Table 6. Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
R _{th(j-mb)}	thermal resistance from junction to mounting base	Fig. 5	-	-	0.9	K/W



10. Characteristics

Table 7. Characteristics

$I_D = 250 \mu A; V_{GS} = 0 V; T_j = 25 °C$ $I_D = 250 \mu A; V_{GS} = 0 V; T_j = -55 °C$	100	-		
,	100	_		
I _D = 250 μA; V _{GS} = 0 V; T _j = -55 °C			-	V
	90	-	-	V
I _D = 1 mA; V _{DS} =V _{GS} ; T _j = 25 °C; <u>Fig. 9</u> ; <u>Fig. 10</u>	1.4	1.7	2.1	V
$I_D = 1 \text{ mA}; V_{DS} = V_{GS}; T_j = -55 \text{ °C}; Fig. 9$	-	-	2.45	V
$I_D = 1 \text{ mA}; V_{DS} = V_{GS}; T_j = 175 \text{ °C}; Fig. 9$	0.5	-	-	V
V _{DS} = 100 V; V _{GS} = 0 V; T _j = 175 °C	-	-	500	μΑ
V _{DS} = 100 V; V _{GS} = 0 V; T _j = 25 °C	-	0.04	10	μΑ
V _{GS} = 16 V; V _{DS} = 0 V; T _j = 25 °C	-	2	100	nA
V _{GS} = -16 V; V _{DS} = 0 V; T _j = 25 °C	-	2	100	nA
V _{GS} = 5 V; I _D = 15 A; T _j = 25 °C; <u>Fig. 11</u>	-	14.6	19	mΩ
V _{GS} = 10 V; I _D = 15 A; T _j = 25 °C; Fig. 11	-	14	18	mΩ
V _{GS} = 5 V; I _D = 15 A; T _j = 175 °C; Fig. 11; Fig. 12	-	-	52.4	mΩ
	'			
I _D = 15 A; V _{DS} = 80 V; V _{GS} = 10 V; T _j = 25 °C; <u>Fig. 13</u> ; <u>Fig. 14</u>	-	72.4	-	nC
I _D = 15 A; V _{DS} = 80 V; V _{GS} = 5 V;	-	39	-	nC
T _j = 25 °C; <u>Fig. 13; Fig. 14</u>	-	8.5	-	nC
	Fig. 10 $I_D = 1 \text{ mA; } V_{DS} = V_{GS}; T_j = -55 \text{ °C; } Fig. 9$ $I_D = 1 \text{ mA; } V_{DS} = V_{GS}; T_j = 175 \text{ °C; } Fig. 9$ $V_{DS} = 100 \text{ V; } V_{GS} = 0 \text{ V; } T_j = 175 \text{ °C}$ $V_{DS} = 100 \text{ V; } V_{GS} = 0 \text{ V; } T_j = 25 \text{ °C}$ $V_{GS} = 16 \text{ V; } V_{DS} = 0 \text{ V; } T_j = 25 \text{ °C}$ $V_{GS} = -16 \text{ V; } V_{DS} = 0 \text{ V; } T_j = 25 \text{ °C}$ $V_{GS} = 5 \text{ V; } I_D = 15 \text{ A; } T_j = 25 \text{ °C; } Fig. 11$ $V_{GS} = 10 \text{ V; } I_D = 15 \text{ A; } T_j = 25 \text{ °C; } Fig. 11$ $V_{GS} = 5 \text{ V; } I_D = 15 \text{ A; } T_j = 175 \text{ °C; } Fig. 11$ $V_{GS} = 5 \text{ V; } I_D = 15 \text{ A; } T_j = 175 \text{ °C; } Fig. 11; Fig. 12$ $I_D = 15 \text{ A; } V_{DS} = 80 \text{ V; } V_{GS} = 10 \text{ V; } T_j = 25 \text{ °C; } Fig. 13; Fig. 14$ $I_D = 15 \text{ A; } V_{DS} = 80 \text{ V; } V_{GS} = 5 \text{ V; } Fig. 15 \text{ A; } V_{DS} = 10 \text{ V; } V_{GS} = 10 \text{ V; } V_{GS}$	Fig. 10 $I_D = 1 \text{ mA; } V_{DS} = V_{GS}; T_j = -55 \text{ °C; } Fig. 9$ $I_D = 1 \text{ mA; } V_{DS} = V_{GS}; T_j = 175 \text{ °C; } Fig. 9$ $V_{DS} = 100 \text{ V; } V_{GS} = 0 \text{ V; } T_j = 175 \text{ °C}$ $V_{DS} = 100 \text{ V; } V_{GS} = 0 \text{ V; } T_j = 25 \text{ °C}$ $V_{GS} = 16 \text{ V; } V_{DS} = 0 \text{ V; } T_j = 25 \text{ °C}$ $V_{GS} = -16 \text{ V; } V_{DS} = 0 \text{ V; } T_j = 25 \text{ °C}$ $V_{GS} = -16 \text{ V; } V_{DS} = 0 \text{ V; } T_j = 25 \text{ °C}$ $V_{GS} = 5 \text{ V; } I_D = 15 \text{ A; } T_j = 25 \text{ °C; } Fig. 11$ $V_{GS} = 10 \text{ V; } I_D = 15 \text{ A; } T_j = 25 \text{ °C; } Fig. 11$ $V_{GS} = 5 \text{ V; } I_D = 15 \text{ A; } T_j = 175 \text{ °C; } Fig. 11$ $V_{GS} = 5 \text{ V; } I_D = 15 \text{ A; } T_j = 175 \text{ °C; } Fig. 11; Fig. 12$ $I_D = 15 \text{ A; } V_{DS} = 80 \text{ V; } V_{GS} = 10 \text{ V; } T_j = 25 \text{ °C; } Fig. 13; Fig. 14$ $I_D = 15 \text{ A; } V_{DS} = 80 \text{ V; } V_{GS} = 5 \text{ V; } T_j = 25 \text{ °C; } Fig. 13; Fig. 14$	Fig. 10 $I_D = 1 \text{ mA; } V_{DS} = V_{GS}; T_j = -55 \text{ °C; Fig. 9} \qquad - \qquad $	$ \begin{aligned} & \text{Fig. 10} \\ & \text{I}_D = 1 \text{ mA; V}_{DS} = \text{V}_{GS}; \ T_j = -55 ^{\circ}\text{C; Fig. 9} \\ & \text{I}_D = 1 \text{ mA; V}_{DS} = \text{V}_{GS}; \ T_j = 175 ^{\circ}\text{C; Fig. 9} \\ & \text{V}_{DS} = 100 \text{V; V}_{GS} = 0 \text{V; T}_j = 175 ^{\circ}\text{C} \\ & \text{V}_{DS} = 100 \text{V; V}_{GS} = 0 \text{V; T}_j = 25 ^{\circ}\text{C} \\ & \text{V}_{DS} = 16 \text{V; V}_{DS} = 0 \text{V; T}_j = 25 ^{\circ}\text{C} \\ & \text{V}_{GS} = 16 \text{V; V}_{DS} = 0 \text{V; T}_j = 25 ^{\circ}\text{C} \\ & \text{V}_{GS} = -16 \text{V; V}_{DS} = 0 \text{V; T}_j = 25 ^{\circ}\text{C} \\ & \text{V}_{GS} = 5 \text{V; I}_D = 15 \text{A; T}_j = 25 ^{\circ}\text{C; Fig. 11} \\ & \text{V}_{GS} = 10 \text{V; I}_D = 15 \text{A; T}_j = 25 ^{\circ}\text{C; Fig. 11} \\ & \text{V}_{GS} = 10 \text{V; I}_D = 15 \text{A; T}_j = 25 ^{\circ}\text{C; Fig. 11} \\ & \text{V}_{GS} = 5 \text{V; I}_D = 15 \text{A; T}_j = 175 ^{\circ}\text{C; Fig. 11} \\ & \text{V}_{GS} = 5 \text{V; I}_D = 15 \text{A; T}_j = 175 ^{\circ}\text{C; Fig. 11} \\ & \text{V}_{GS} = 5 \text{V; I}_D = 15 \text{A; T}_j = 175 ^{\circ}\text{C; Fig. 11} \\ & \text{V}_{DS} = 5 \text{V; I}_D = 15 \text{A; T}_j = 175 ^{\circ}\text{C; Fig. 11} \\ & \text{V}_{DS} = 5 \text{V; I}_D = 15 \text{A; T}_j = 175 ^{\circ}\text{C; Fig. 11; Fig. 12} \\ & \text{V}_{DS} = 10 \text{V; V}_{DS} = 10 \text{V; V}_$

Symbol	Parameter	Conditions	N	/lin	Тур	Max	Unit
Q_{GD}	gate-drain charge		-	-	14.1	-	nC
C _{iss}	input capacitance	$V_{DS} = 25 \text{ V}; V_{GS} = 0 \text{ V}; f = 1 \text{ MHz};$	-	-	3814	5085	pF
C _{oss}	output capacitance	T _j = 25 °C; <u>Fig. 15</u>	-	-	222	266	pF
C _{rss}	reverse transfer capacitance		-	-	133	182	pF
t _{d(on)}	turn-on delay time	V_{DS} = 80 V; R_{L} = 5 Ω ; V_{GS} = 5 V; $R_{G(ext)}$ = 5 Ω ; T_{j} = 25 °C	-	-	18.5	-	ns
t _r	rise time		-	-	36.8	-	ns
t _{d(off)}	turn-off delay time		-	-	59.6	-	ns
t _f	fall time		-	-	34.3	-	ns
Source-dra	ain diode				'		
V _{SD}	source-drain voltage	$I_S = 15 \text{ A}$; $V_{GS} = 0 \text{ V}$; $T_j = 25 ^{\circ}\text{C}$; Fig. 16	-	-	8.0	1.2	V
t _{rr}	reverse recovery time	I_S = 15 A; dI_S/dt = -100 A/ μ s; V_{GS} = 0 V;	-	-	38.7	-	ns
Q _r	recovered charge	V _{DS} = 25 V; T _j = 25 °C	-	-	67.7	-	nC

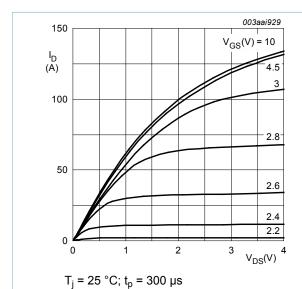


Fig. 6. Output characteristics; drain current as a function of drain-source voltage; typical values

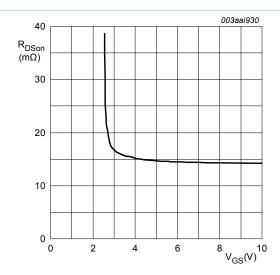


Fig. 7. Drain-source on-state resistance as a function of gate-source voltage; typical values

$$T_j = 25$$
°C; $I_D = 15A$

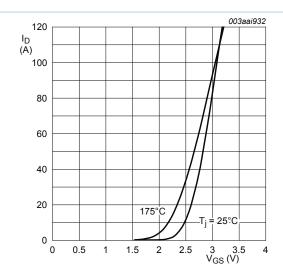


Fig. 8. Transfer characteristics; drain current as a function of gate-source voltage; typical values

$$V_{DS} = 10V$$

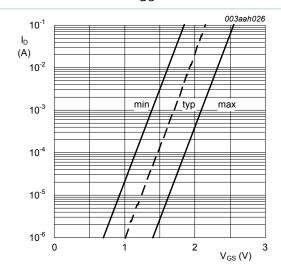


Fig. 10. Sub-threshold drain current as a function of gate-source voltage

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

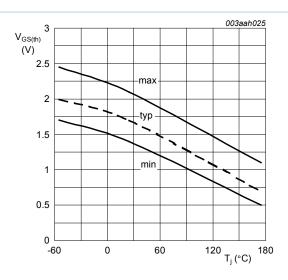
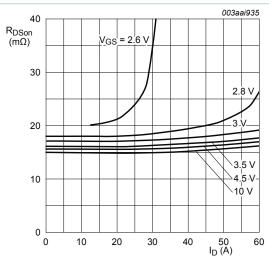


Fig. 9. Gate-source threshold voltage as a function of junction temperature

$$I_D$$
= 1 mA; V_{DS} = V_{GS}



 $T_j = 25 \, ^{\circ}C; t_p = 300 \, \mu s$

Fig. 11. Drain-source on-state resistance as a function of drain current; typical values

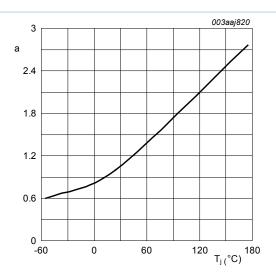


Fig. 12. Normalized drain-source on-state resistance factor as a function of junction temperature

$$a = \frac{R_{DSon}}{R_{DSon}(25^{\circ}C)}$$

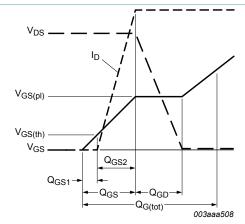


Fig. 14. Gate charge waveform definitions

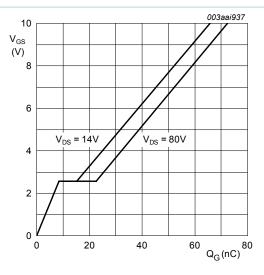


Fig. 13. Gate-source voltage as a function of gate charge; typical values

$$T_j = 25^{\circ}C; I_D = 15A$$

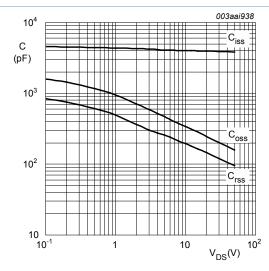


Fig. 15. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

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

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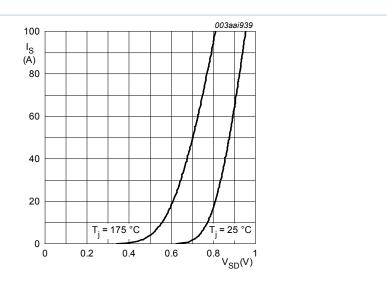
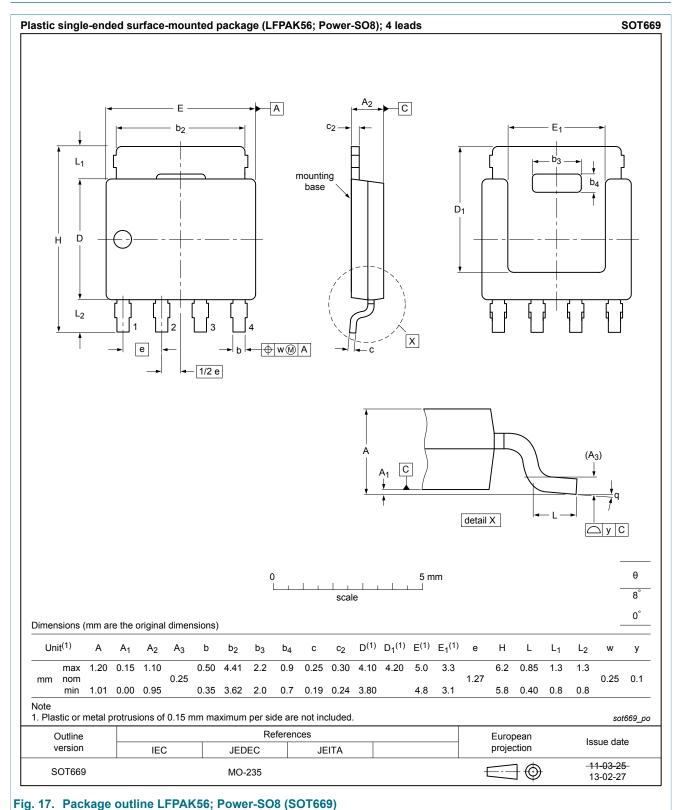


Fig. 16. Source (diode forward) current as a function of source-drain (diode forward) voltage; typical values

11. Package outline



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12. Legal information

12.1 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.

- Please consult the most recently issued document before initiating or completing a design.
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N-channel 100 V, 19 m Ω logic level MOSFET in LFPAK56

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