



# PSMNR90-40YSN

N-channel 40 V, 0.97 mOhm, 320 A, standard level MOSFET in LFPAK56 using NextPower-S3 Schottky-Plus technology.

13 December 2023

Product data sheet

## 1. General description

320 Amp, standard level gate drive N-channel enhancement mode MOSFET in 175 °C LFPAK56 package using advanced TrenchMOS Superjunction technology. This product has been designed and qualified for high performance power switching applications.

## 2. Features and benefits

- 320 A continuous  $I_{D(max)}$
- Avalanche rated, 100% tested at  $I_{AS} = 190$  A
- Low-spiking, allowing for high system efficiency and low EMI designs
- NextPower-S3 technology delivers 'superfast switching' with soft body-diode recovery
- Low  $Q_{RR}$ , spiking, ringing, and oscillation for high system efficiency and low EMI designs
- Schottky-Plus body-diode with low  $V_{SD}$ , and low  $I_{DSS}$  leakage
- High reliability LFPAK (Power SO8) package, with copper-clip and solder die attach, qualified to 175 °C
- Exposed leads can be wave soldered, visual solder joint inspection and high quality solder joints for ultimate reliability
- Low parasitic inductance and resistance

## 3. Applications

- High-performance synchronous rectification
- DC-to-DC converters
- High performance and high efficiency server power supply
- Brushless DC motor control
- Battery protection
- Load-switch
- eFuse

## 4. Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions		Min	Typ	Max	Unit
$V_{DS}$	drain-source voltage	$25\text{ °C} \leq T_j \leq 175\text{ °C}$		-	-	40	V
$I_D$	drain current	$V_{GS} = 10\text{ V}$ ; $T_{mb} = 25\text{ °C}$ ; <a href="#">Fig. 2</a>	[1]	-	-	320	A
$P_{tot}$	total power dissipation	$T_{mb} = 25\text{ °C}$ ; <a href="#">Fig. 1</a>		-	-	268	W
$T_j$	junction temperature			-55	-	175	°C
<b>Static characteristics</b>							
$R_{DSon}$	drain-source on-state resistance	$V_{GS} = 10\text{ V}$ ; $I_D = 25\text{ A}$ ; $T_j = 25\text{ °C}$ ; <a href="#">Fig. 12</a>		0.57	0.81	0.97	mΩ
		$V_{GS} = 10\text{ V}$ ; $I_D = 25\text{ A}$ ; $T_j = 125\text{ °C}$ ; <a href="#">Fig. 13</a>		0.84	1.25	1.6	mΩ

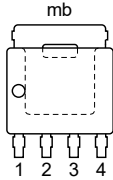
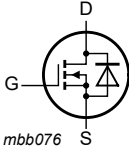
N-channel 40 V, 0.97 mOhm, 320 A, standard level MOSFET in LFAK56 using NextPower-S3 Schottky-Plus technology.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
<b>Dynamic characteristics</b>						
$Q_{GD}$	gate-drain charge	$I_D = 25\text{ A}$ ; $V_{DS} = 32\text{ V}$ ; $V_{GS} = 10\text{ V}$ ; $T_j = 25\text{ °C}$ ; <a href="#">Fig. 14</a> ; <a href="#">Fig. 15</a>	12	42	72	nC
$Q_{G(tot)}$	total gate charge		81	135	189	nC
<b>Avalanche ruggedness</b>						
$E_{DS(AL)S}$	non-repetitive drain-source avalanche energy	$I_D = 67.5\text{ A}$ ; $V_{sup} \leq 40\text{ V}$ ; $R_{GS} = 50\text{ }\Omega$ ; $V_{GS} = 10\text{ V}$ ; $T_{j(initial)} = 25\text{ °C}$ ; unclamped; $t_p = 252\text{ }\mu\text{s}$ ; <a href="#">Fig. 4</a>	[2]	-	-	443 mJ
<b>Source-drain diode</b>						
$Q_r$	recovered charge	$I_S = 25\text{ A}$ ; $di_S/dt = -100\text{ A}/\mu\text{s}$ ; $V_{GS} = 0\text{ V}$ ; $V_{DS} = 20\text{ V}$ ; $T_j = 25\text{ °C}$ ; <a href="#">Fig. 18</a>	[3]	-	24	nC

- [1] 320 A continuous current has been successfully demonstrated during application tests. Practically the current will be limited by PCB, thermal design and operating temperature.
- [2] Protected by 100% test.
- [3] includes capacitive recovery

## 5. Pinning information

Table 2. Pinning information

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	S	source	 <p>LFAK56; Power-SO8 (SOT669)</p>	 <p>mbb076</p>
2	S	source		
3	S	source		
4	G	gate		
mb	D	mounting base; connected to drain		

## 6. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
PSMNR90-40YSN	LFAK56; Power-SO8	plastic, single-ended surface-mounted package; 4 terminals	SOT669

## 7. Marking

Table 4. Marking codes

Type number	Marking code
PSMNR90-40YSN	N9040S

## 8. Limiting values

Table 5. Limiting values

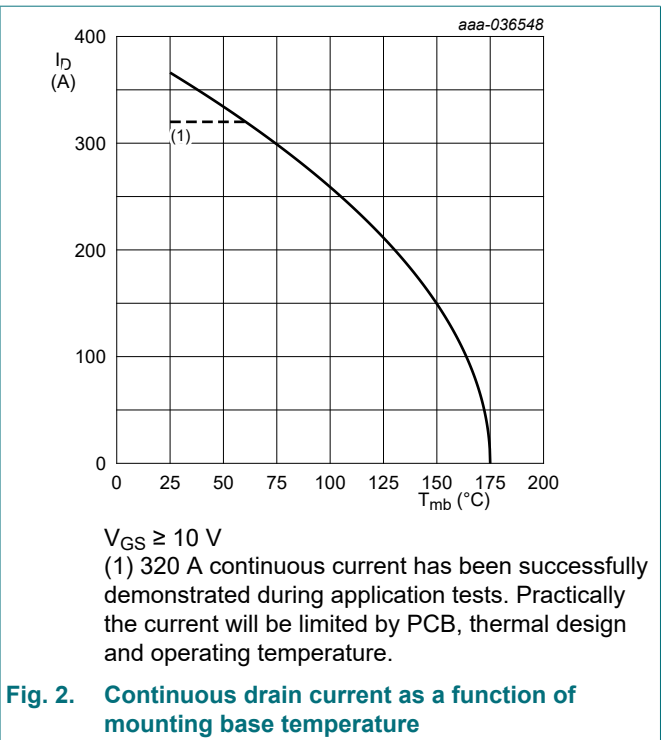
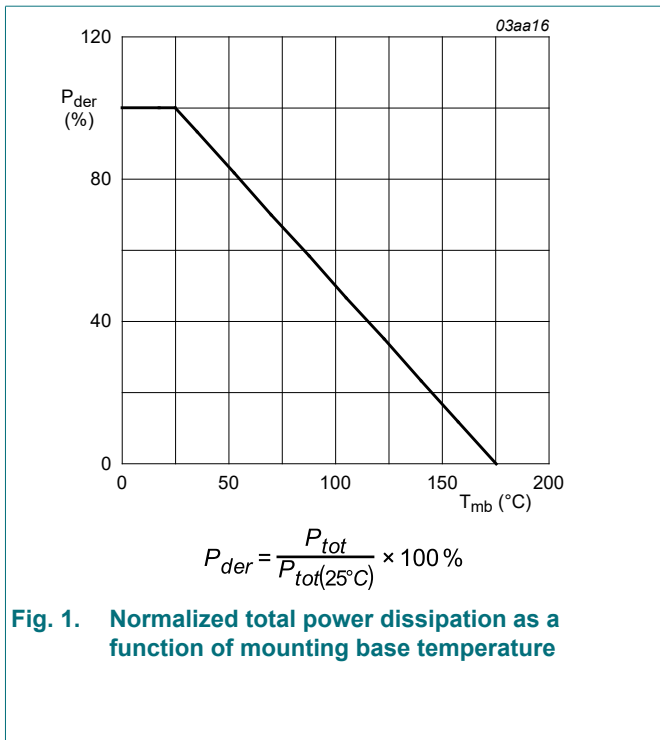
In accordance with the Absolute Maximum Rating System (IEC 60134).  $T_j = 25\text{ °C}$  unless otherwise stated.

Symbol	Parameter	Conditions	Min	Max	Unit
$V_{DS}$	drain-source voltage	$25\text{ °C} \leq T_j \leq 175\text{ °C}$	-	40	V

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Symbol	Parameter	Conditions	Min	Max	Unit	
V <sub>DSM</sub>	peak drain-source voltage	t <sub>p</sub> ≤ 20 ns; f ≤ 500 kHz; E <sub>DS(AL)</sub> ≤ 200 nJ; single pulse	-	45	V	
V <sub>GS</sub>	gate-source voltage		-20	20	V	
P <sub>tot</sub>	total power dissipation	T <sub>mb</sub> = 25 °C; Fig. 1	-	268	W	
I <sub>D</sub>	drain current	V <sub>GS</sub> = 10 V; T <sub>mb</sub> = 25 °C; Fig. 2	[1]	-	320	A
		V <sub>GS</sub> = 10 V; T <sub>mb</sub> = 100 °C; Fig. 2		-	259	A
I <sub>DM</sub>	peak drain current	pulsed; t <sub>p</sub> ≤ 10 μs; T <sub>mb</sub> = 25 °C; Fig. 3	-	1465	A	
T <sub>stg</sub>	storage temperature		-55	175	°C	
T <sub>j</sub>	junction temperature		-55	175	°C	
I <sub>AS</sub>	non-repetitive avalanche current	V <sub>sup</sub> ≤ 40 V; V <sub>GS</sub> = 10 V; T <sub>j(init)</sub> = 25 °C; R <sub>GS</sub> = 50 Ω	[2]	-	190	A
<b>Source-drain diode</b>						
I <sub>S</sub>	source current	T <sub>mb</sub> = 25 °C	-	268	A	
I <sub>SM</sub>	peak source current	pulsed; t <sub>p</sub> ≤ 10 μs; T <sub>mb</sub> = 25 °C	-	1465	A	
<b>Avalanche ruggedness</b>						
E <sub>DS(AL)S</sub>	non-repetitive drain-source avalanche energy	I <sub>D</sub> = 67.5 A; V <sub>sup</sub> ≤ 40 V; R <sub>GS</sub> = 50 Ω; V <sub>GS</sub> = 10 V; T <sub>j(init)</sub> = 25 °C; unclamped; t <sub>p</sub> = 252 μs; Fig. 4	[2]	-	443	mJ

- [1] 320 A continuous current has been successfully demonstrated during application tests. Practically the current will be limited by PCB, thermal design and operating temperature.
- [2] Protected by 100% test.



N-channel 40 V, 0.97 mOhm, 320 A, standard level MOSFET in LPAK56 using NextPower-S3 Schottky-Plus technology.

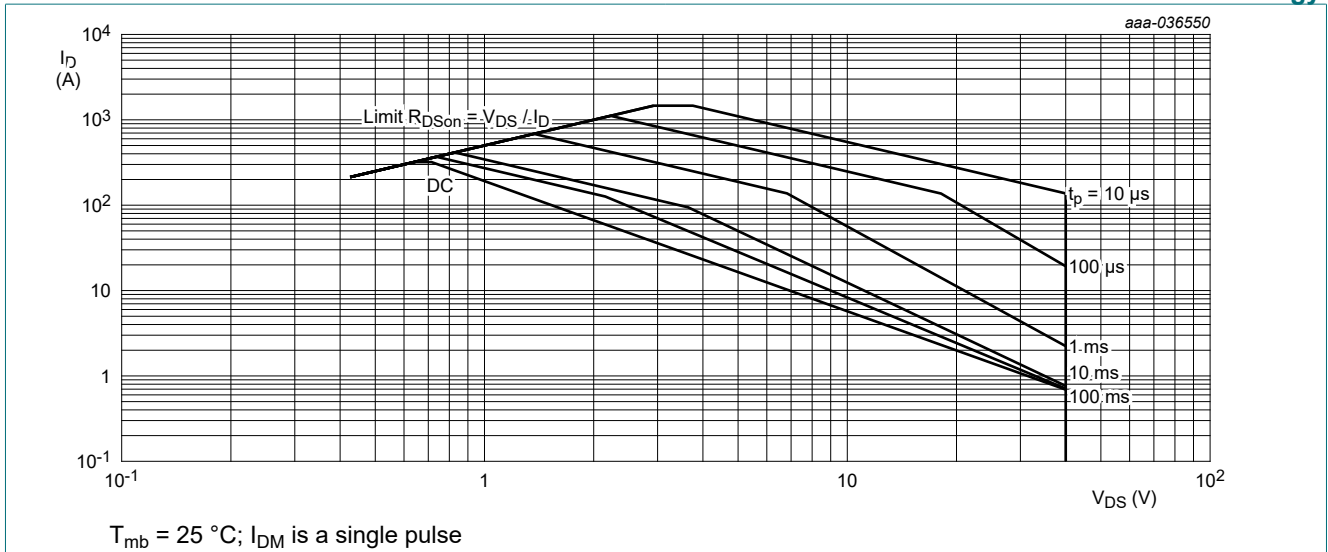


Fig. 3. Safe operating area; continuous and peak drain currents as a function of drain-source voltage

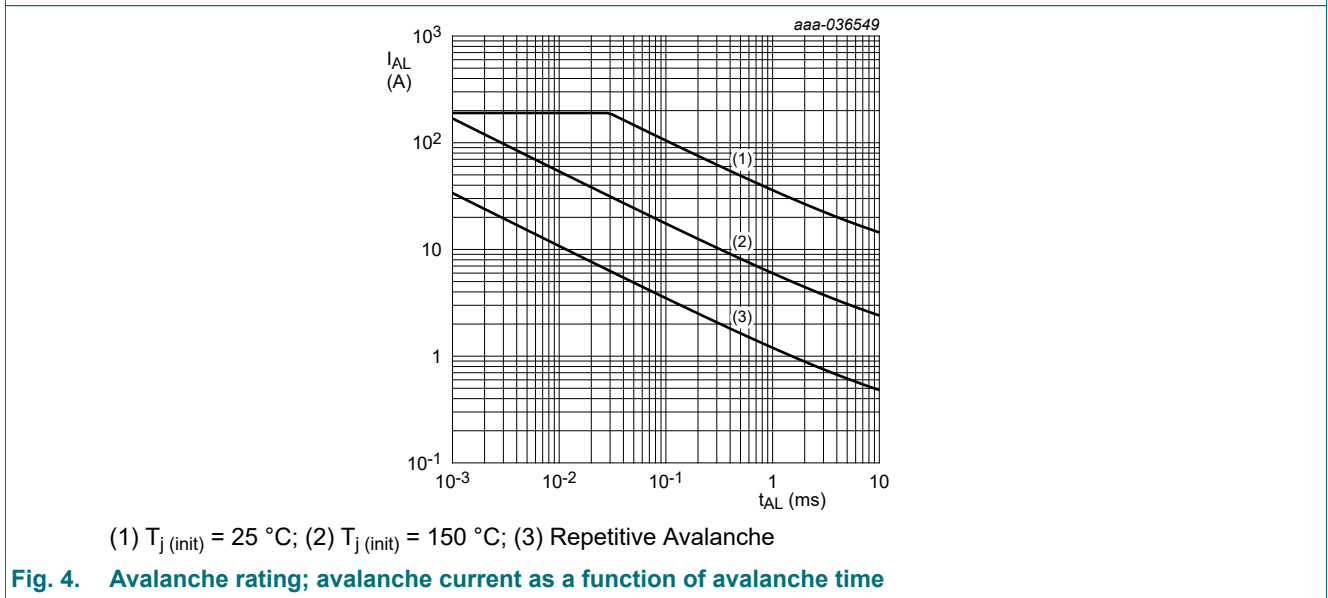


Fig. 4. Avalanche rating; avalanche current as a function of avalanche time

## 9. Thermal characteristics

Table 6. Thermal characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$R_{th(j-mb)}$	thermal resistance from junction to mounting base	<a href="#">Fig. 5</a>	-	0.48	0.56	K/W
$R_{th(j-a)}$	thermal resistance from junction to ambient	<a href="#">Fig. 6</a>	-	50	-	K/W
		<a href="#">Fig. 7</a>	-	125	-	K/W

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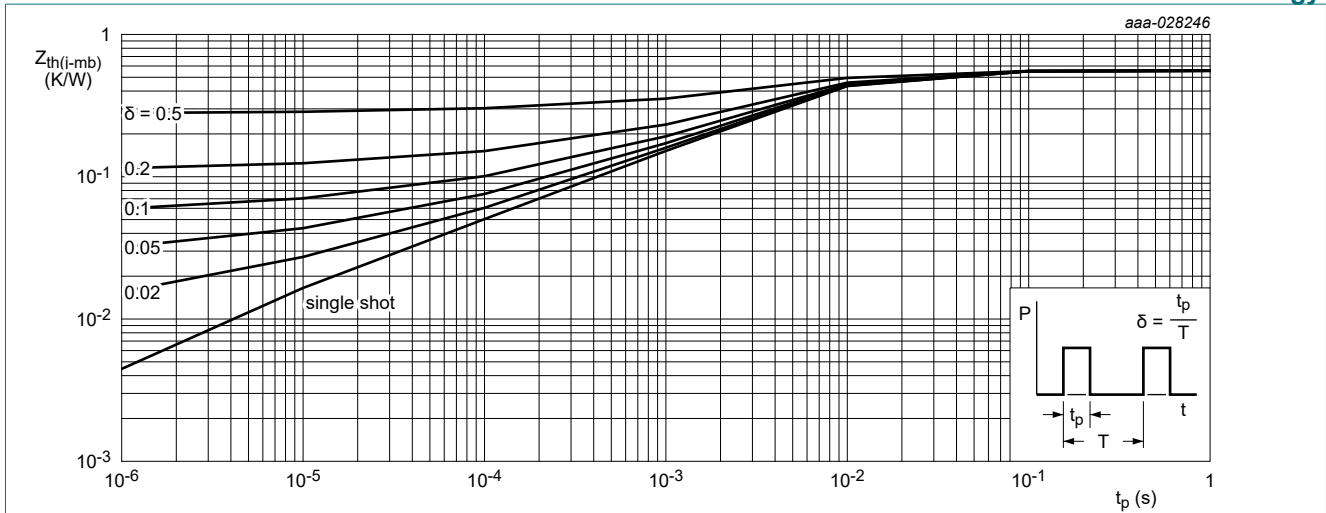


Fig. 5. Transient thermal impedance from junction to mounting base as a function of pulse duration

Fig. 6. PCB layout for thermal resistance junction to ambient 1" square pad; FR4 Board; 2oz copper

Fig. 7. PCB layout for thermal resistance junction to ambient minimum footprint; FR4 board; 2oz copper

## 10. Characteristics

Table 7. Characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
<b>Static characteristics</b>						
$V_{(BR)DSS}$	drain-source breakdown voltage	$I_D = 250 \mu A; V_{GS} = 0 V; T_j = 25 \text{ }^\circ C$	40	43	-	V
		$I_D = 250 \mu A; V_{GS} = 0 V; T_j = -55 \text{ }^\circ C$	36	40	-	V
$V_{GS(th)}$	gate-source threshold voltage	$I_D = 1 \text{ mA}; V_{DS}=V_{GS}; T_j = 25 \text{ }^\circ C; \text{ Fig. 11}$	2.4	3	3.6	V
		$I_D = 1 \text{ mA}; V_{DS}=V_{GS}; T_j = -55 \text{ }^\circ C$	-	3.5	-	V
		$I_D = 1 \text{ mA}; V_{DS}=V_{GS}; T_j = 175 \text{ }^\circ C$	-	1.9	-	V
$\Delta V_{GS(th)}/\Delta T$	gate-source threshold voltage variation with temperature	$25 \text{ }^\circ C \leq T_j \leq 175 \text{ }^\circ C$	-	-7.2	-	mV/K
$I_{DSS}$	drain leakage current	$V_{DS} = 40 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ }^\circ C$	-	0.1	1	$\mu A$
		$V_{DS} = 16 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 125 \text{ }^\circ C$	-	1.1	10	$\mu A$
$I_{GSS}$	gate leakage current	$V_{GS} = 20 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ }^\circ C$	-	2	100	nA
		$V_{GS} = -20 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ }^\circ C$	-	2	100	nA

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Symbol	Parameter	Conditions	Min	Typ	Max	Unit
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> = 25 °C; <a href="#">Fig. 12</a>	0.57	0.81	0.97	mΩ
		V <sub>GS</sub> = 10 V; I <sub>D</sub> = 25 A; T <sub>J</sub> = 105 °C; <a href="#">Fig. 13</a>	0.77	1.15	1.46	mΩ
		V <sub>GS</sub> = 10 V; I <sub>D</sub> = 25 A; T <sub>J</sub> = 125 °C; <a href="#">Fig. 13</a>	0.84	1.25	1.6	mΩ
		V <sub>GS</sub> = 10 V; I <sub>D</sub> = 25 A; T <sub>J</sub> = 175 °C; <a href="#">Fig. 13</a>	1	1.52	2	mΩ
R <sub>G</sub>	gate resistance	f = 1 MHz; T <sub>J</sub> = 25 °C	0.2	0.63	1.6	Ω
<b>Dynamic characteristics</b>						
Q <sub>G(tot)</sub>	total gate charge	I <sub>D</sub> = 25 A; V <sub>DS</sub> = 32 V; V <sub>GS</sub> = 10 V; T <sub>J</sub> = 25 °C; <a href="#">Fig. 14</a> ; <a href="#">Fig. 15</a>	81	135	189	nC
		I <sub>D</sub> = 0 A; V <sub>DS</sub> = 0 V; T <sub>J</sub> = 25 °C	-	107	-	nC
Q <sub>GS</sub>	gate-source charge	I <sub>D</sub> = 25 A; V <sub>DS</sub> = 32 V; V <sub>GS</sub> = 10 V; T <sub>J</sub> = 25 °C; <a href="#">Fig. 14</a> ; <a href="#">Fig. 15</a>	14	26	38	nC
Q <sub>GS(th)</sub>	pre-threshold gate-source charge		10	19	28	nC
Q <sub>GS(th-pl)</sub>	post-threshold gate-source charge		4	7.6	11	nC
Q <sub>GD</sub>	gate-drain charge		12	42	72	nC
V <sub>GS(pl)</sub>	gate-source plateau voltage	I <sub>D</sub> = 25 A; V <sub>DS</sub> = 32 V; T <sub>J</sub> = 25 °C; <a href="#">Fig. 14</a> ; <a href="#">Fig. 15</a>	-	4.1	-	V
C <sub>iss</sub>	input capacitance	V <sub>DS</sub> = 25 V; V <sub>GS</sub> = 0 V; f = 1 MHz; T <sub>J</sub> = 25 °C; <a href="#">Fig. 16</a>	4552	7587	10622	pF
C <sub>oss</sub>	output capacitance		1166	1666	2166	pF
C <sub>rss</sub>	reverse transfer capacitance		252	631	1010	pF
t <sub>d(on)</sub>	turn-on delay time	V <sub>DS</sub> = 30 V; R <sub>L</sub> = 1.2 Ω; V <sub>GS</sub> = 10 V; R <sub>G(ext)</sub> = 5 Ω; T <sub>J</sub> = 25 °C	-	25	-	ns
t <sub>r</sub>	rise time		-	49	-	ns
t <sub>d(off)</sub>	turn-off delay time		-	79	-	ns
t <sub>f</sub>	fall time		-	58	-	ns
<b>Source-drain diode</b>						
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; <a href="#">Fig. 17</a>	-	0.79	1	V
t <sub>rr</sub>	reverse recovery time	I <sub>S</sub> = 25 A; dI <sub>S</sub> /dt = -100 A/μs; V <sub>GS</sub> = 0 V; V <sub>DS</sub> = 20 V; T <sub>J</sub> = 25 °C; <a href="#">Fig. 18</a>	-	34	-	ns
Q <sub>r</sub>	recovered charge		[1]	24	-	nC

[1] includes capacitive recovery

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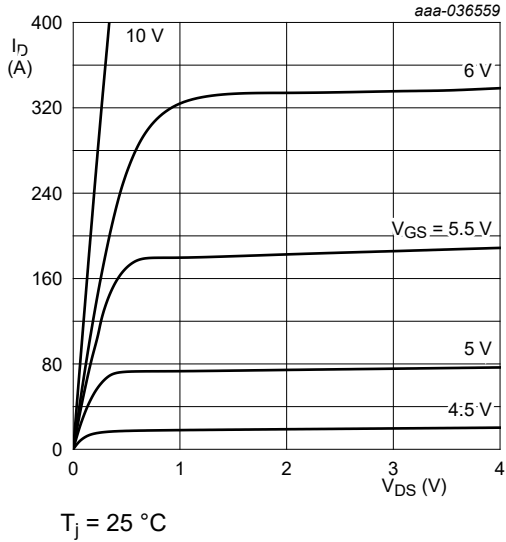


Fig. 8. Output characteristics; drain current as a function of drain-source voltage; typical values

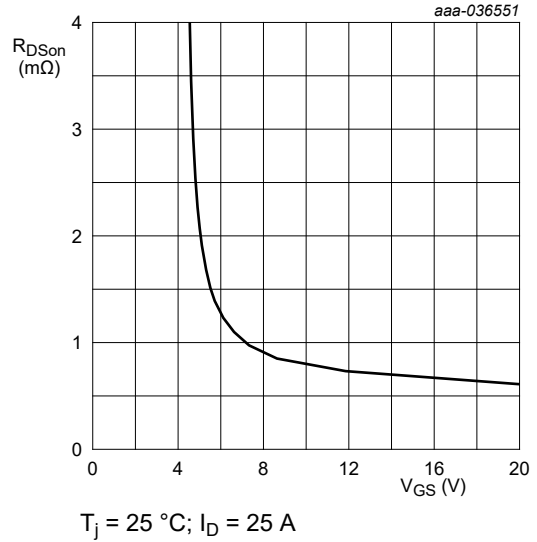


Fig. 9. Drain-source on-state resistance as a function of gate-source voltage; typical values

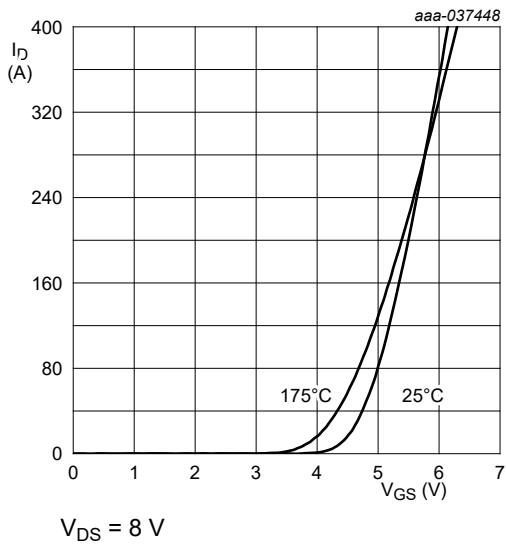


Fig. 10. Transfer characteristics; drain current as a function of gate-source voltage; typical values

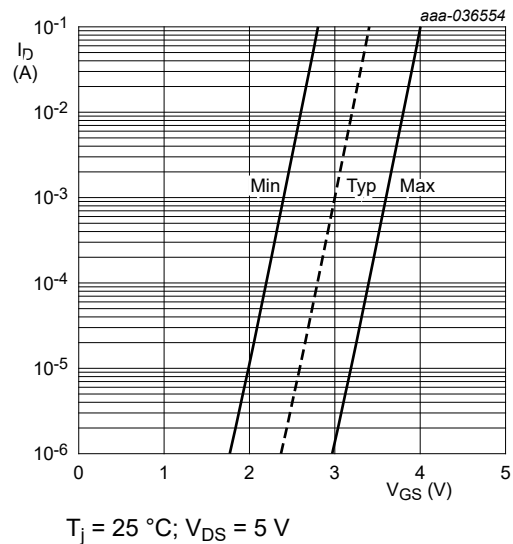


Fig. 11. Sub-threshold drain current as a function of gate-source voltage

N-channel 40 V, 0.97 mOhm, 320 A, standard level MOSFET in LFPAK56 using NextPower-S3 Schottky-Plus technology.

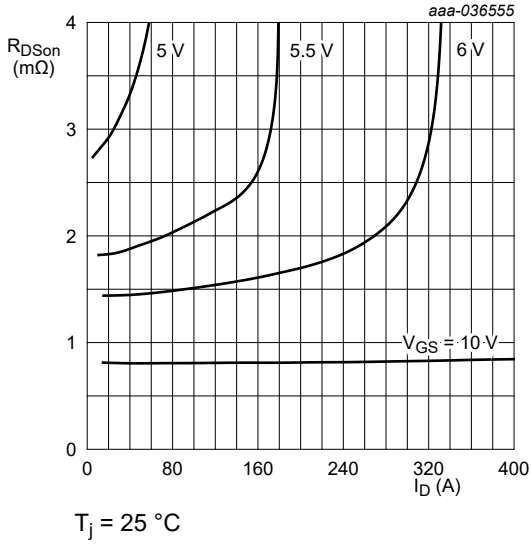
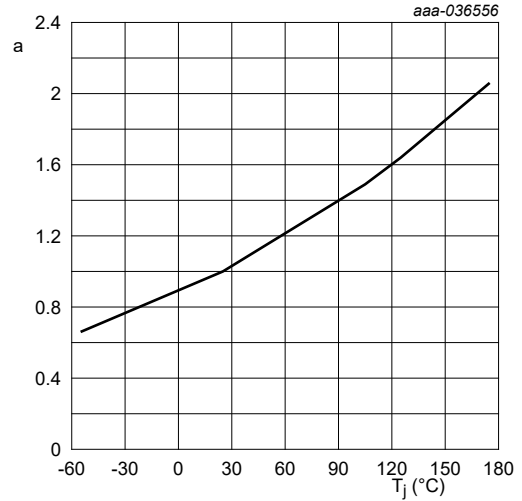


Fig. 12. Drain-source on-state resistance as a function of drain current; typical values



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

Fig. 13. Normalized drain-source on-state resistance factor as a function of junction temperature

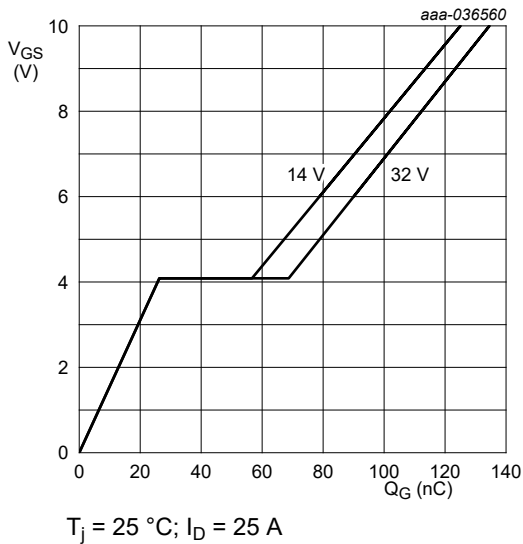


Fig. 14. Gate-source voltage as a function of gate charge; typical values

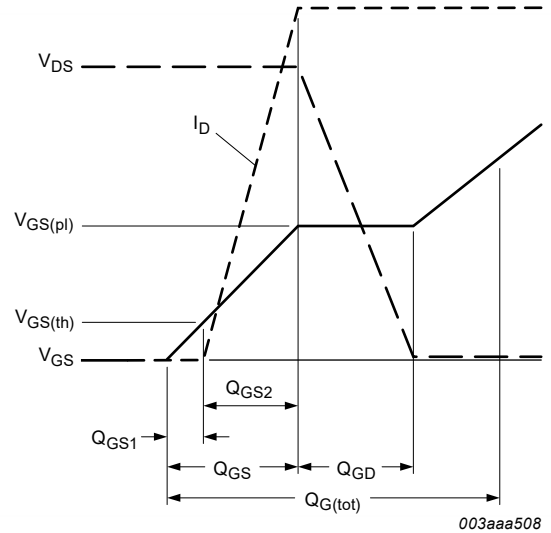


Fig. 15. Gate charge waveform definitions



N-channel 40 V, 0.97 mOhm, 320 A, standard level MOSFET in LPAK56 using NextPower-S3 Schottky-Plus technology.

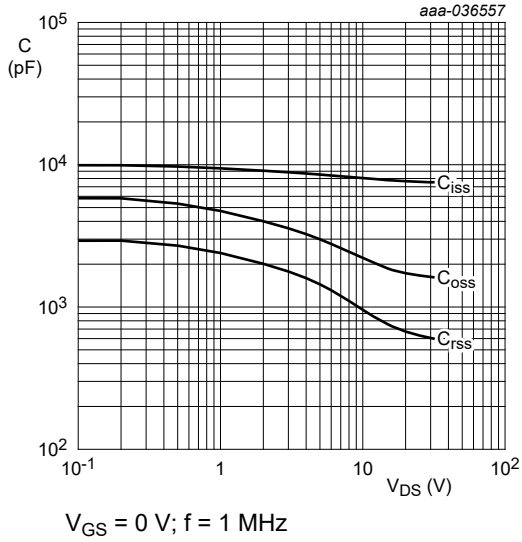


Fig. 16. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

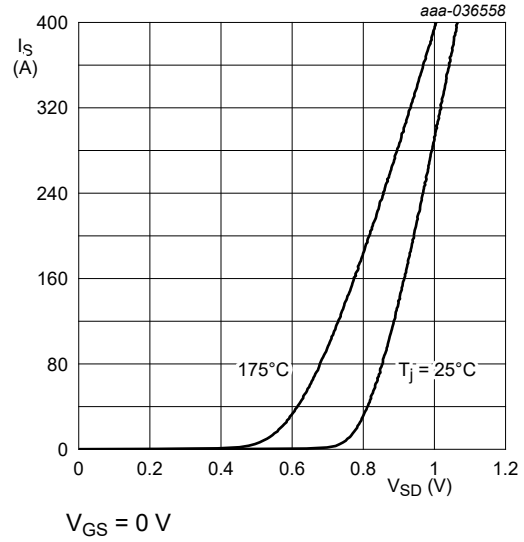


Fig. 17. Source-drain (diode forward) current as a function of source-drain (diode forward) voltage; typical values

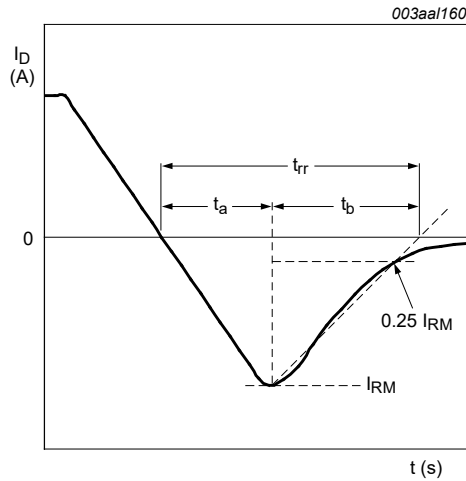


Fig. 18. Reverse recovery timing definition

### 11. Package outline

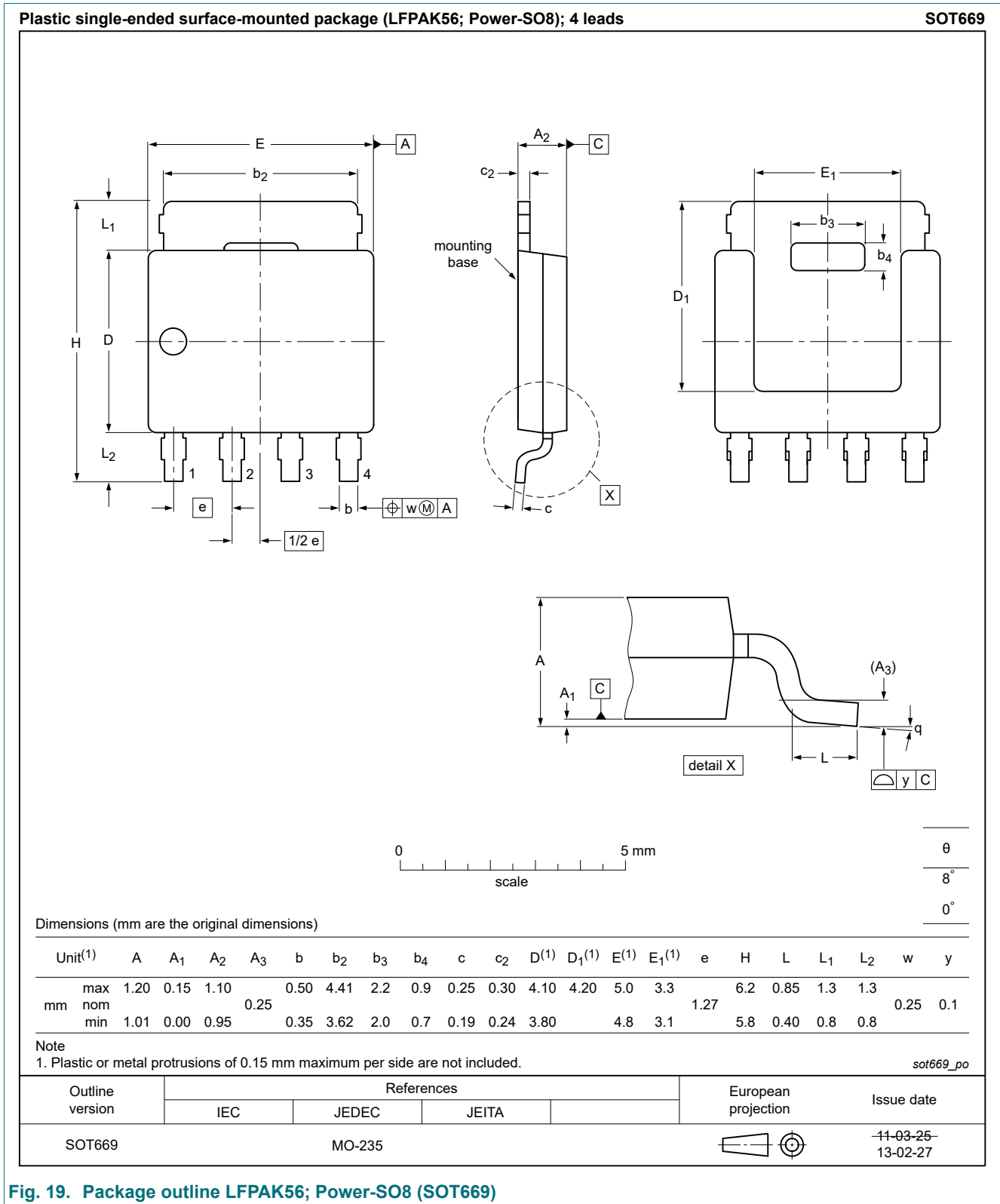


Fig. 19. Package outline LFPAK56; Power-SO8 (SOT669)

## 12. Soldering

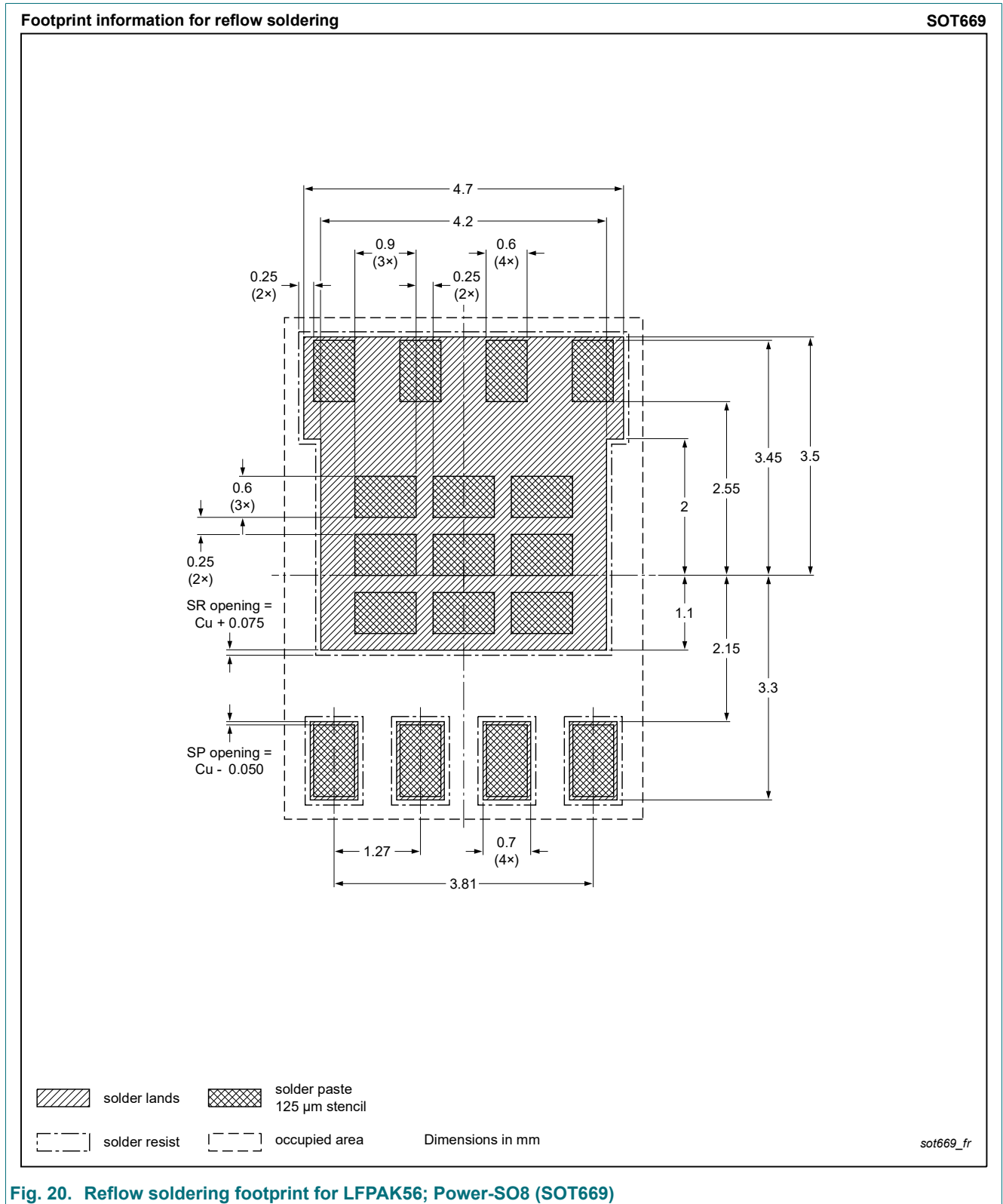
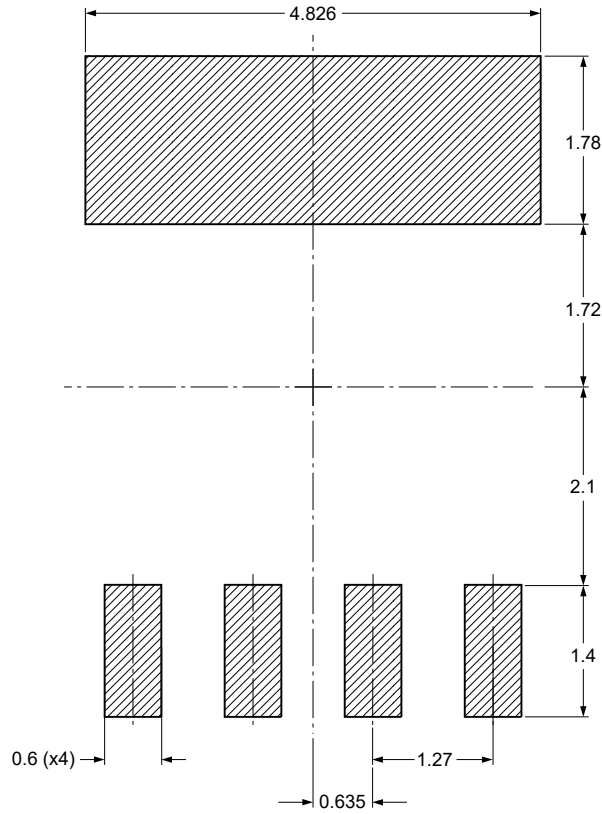


Fig. 20. Reflow soldering footprint for LFPAK56; Power-SO8 (SOT669)

N-channel 40 V, 0.97 mOhm, 320 A, standard level MOSFET in LFPAK56 using NextPower-S3 Schottky-Plus technology.

Wave soldering footprint information for LFPAK56 package

SOT669



 solder lands

Dimensions in mm

Issue date ~~15-04-13~~  
15-04-16

sot669\_fw

Fig. 21. Wave soldering footprint for LFPAK56; Power-SO8 (SOT669)

## N-channel 40 V, 0.97 mOhm, 320 A, standard level MOSFET in LPAK56 using NextPower-S3 Schottky-Plus technology.

### 13. Legal information

#### 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.

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## Contents

---

1. General description.....	1
2. Features and benefits.....	1
3. Applications.....	1
4. Quick reference data.....	1
5. Pinning information.....	2
6. Ordering information.....	2
7. Marking.....	2
8. Limiting values.....	2
9. Thermal characteristics.....	4
10. Characteristics.....	5
11. Package outline.....	10
12. Soldering.....	11
13. Legal information.....	13

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