

# **FDN337N**

N-Channel SMD MOSFET

### **Product Summary**

V <sub>(BR)DSS</sub>	R <sub>DS(on)MAX</sub>	<b>I</b> D
30V	65mΩ@4.5V	2.2A
300	82mΩ@2.5V	2.2A

#### **Feature**

- Advanced trench process technology
- High density cell design for ultra low on-resistance

### **Application**

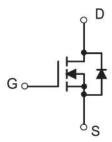
- Load Switch for Portable Devices
- DC/DC Converter

#### **Package**

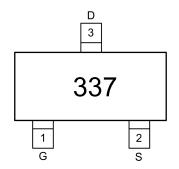


**SOT-23** 

#### Circuit diagram



# Marking





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N-Channel SMD MOSFET

### Absolute maximum ratings (Ta=25℃ unless otherwise noted)

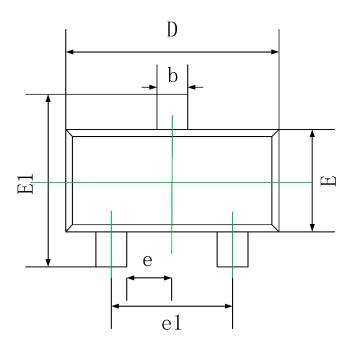
Parameter	Symbol	Value	Unit
Drain-Source Voltage	V <sub>DS</sub>	30	V
Gate-Source Voltage	$V_{GS}$	±8	V
Continuous Drain Current	I <sub>D</sub>	2.2	Α
Pulsed Drain Current	I <sub>DM</sub>	10	А
Power Dissipation	P <sub>D</sub>	0.5	W
Junction Temperature	TJ	150	$^{\circ}\!\mathbb{C}$
Storage Temperature	T <sub>STG</sub>	-55 ~ +150	°C

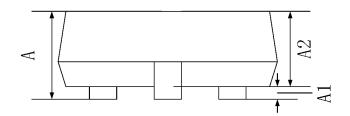
## Electrical characteristics (T<sub>A</sub>=25 °C, unless otherwise noted)

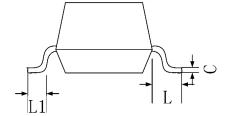
Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Unit	
Static Characteristics	•		•	•			
Drain-source breakdown voltage	V <sub>(BR)DSS</sub>	V <sub>GS</sub> = 0V, I <sub>D</sub> =250μA	30			V	
Zero gate voltage drain current	I <sub>DSS</sub>	V <sub>DS</sub> =-30V,V <sub>GS</sub> = 0V			1	μΑ	
Gate-body leakage current	I <sub>GSS</sub>	$V_{GS} = \pm 12V, V_{DS} = 0V$			±100	nA	
Gate threshold voltage	V <sub>GS(th)</sub>	V <sub>DS</sub> =V <sub>GS</sub> , I <sub>D</sub> =250μA	0.4		1.3	V	
Drain-source on-resistance <sup>1)</sup>	R <sub>DS(on)</sub>	V <sub>GS</sub> =4.5V, I <sub>D</sub> =2.2A		55	65		
		V <sub>GS</sub> =2.5V, I <sub>D</sub> =2.0A		70	82	mΩ	
Dynamic characteristics <sup>2)</sup>				•			
Input Capacitance	C <sub>iss</sub>	\/ -40\/\/ -0\/\$ -4MI-		300		pF	
Output Capacitance	Coss	$V_{DS} = 10V, V_{GS} = 0V, f = 1MHz$		145			
Turn-on delay time	t <sub>d(on)</sub>	\\ -5\\\\ -4.5\\\ D \ -6.0		4		nS	
Turn-off delay time	t <sub>d(off)</sub>	$V_{DD}$ =5V, $V_{GS}$ =4.5V, $R_{GEN}$ =6 $\Omega$		17			
Source-Drain Diode characteristi	cs		•	•			
Diode Forward Current <sup>1)</sup>	Is				0.42	Α	
Diode Forward voltage	V <sub>DS</sub>	V <sub>GS</sub> =0V, I <sub>S</sub> =0.42A			1.2	V	

Notes: (1) Pulse Test: Pulse Width < 300 $\mu$ s, Duty Cycle  $\leq$ 2%. (2) Guaranteed by design, not subject to production testing.

# **SOT-23 Package Information**







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min.	Max.	Min.	Max.	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP.		0.037 TYP.		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF.		0.022 REF.		
L1	0.300	0.500	0.012	0.020	

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