

DN3400 N-Channel Enhancement MOSFET

General description

N-Channel Enhancement Mode Field Effect Transistor

FEATURES

- High dense cell design for extremely low R_{DS(ON)}
- Exceptional on-resistance and maximum DC current capability
- Load/Power Switching
- Interfacing Switching

V(BR)DSS	R _{DS(on)} MAX	ΙD
	35mΩ@ 10V	
30 V	40mΩ@4.5V	5.8A
	52mΩ@2.5V	





DEVICE MARKING CODE:

Device Type	Device Marking
DN3400	N06

Maximum Ratings (Ratings at 25° C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V _{DS}	30	V
Gate-Source Voltage	Vgs	±12	V
Continuous Drain Current	ΙD	5.8	А
Drain Current-Pulsed (note 1)	Ірм	30	А
Power Dissipation	P _D	350	mW
Thermal Resistance from Junction to Ambient (note 2)	$R_{\theta JA}$	357	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature	Тѕтс	-55~+150	°C

www.doeshare.net Page 1 of 5



Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

30		1 ±100	V µA nA		
30		±100	μA		
		±100	-		
			nA		
		_			
		_			
		35	mΩ		
		40	mΩ		
		52	mΩ		
8			S		
0.7		1.4	V		
		1050	pF		
MHz	99		pF		
	77		pF		
ЛНz		3.6	Ω		
,					
		5	ns		
		7	ns		
		40	ns		
		6	ns		
Drain-source diode characteristics and maximum ratings					
		1	V		
	MHz	0.7 MHz 99	0.7 1.4 MHz 99 77 MHz 3.6		

Page 2 of 5 www.doeshare.net

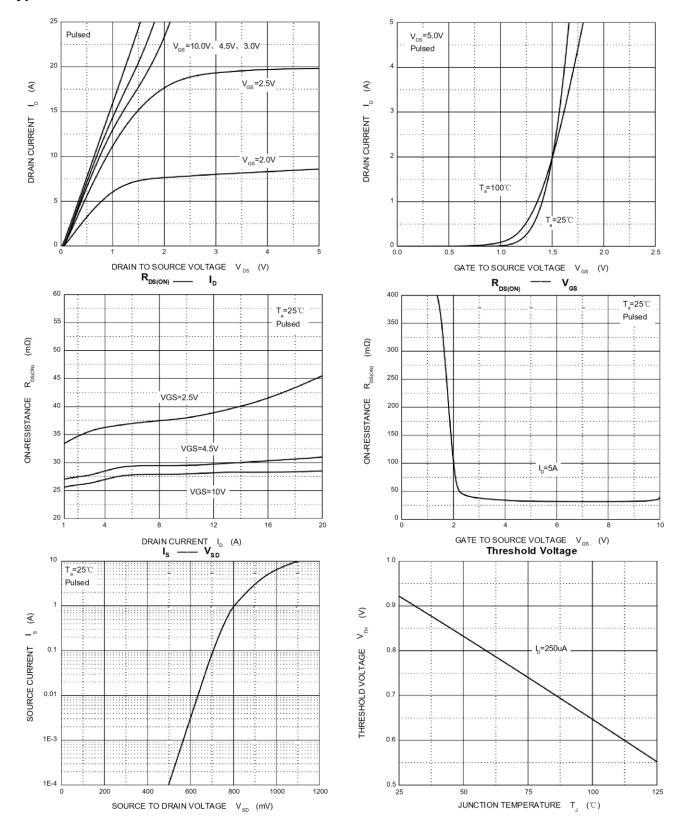
Note:
1.Repetitive Rating: Pulse width limited by maximum junction temperature.
2.Surface Mounted on FR4 Board, t < 5 sec.

^{3.}Pulse Test : Pulse Width \leq 300 μ s, Duty Cycle \leq 2%.

^{4.} Guaranteed by design, not subject to production testing.



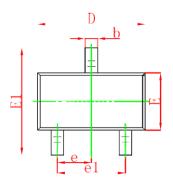
Typical Characteristics

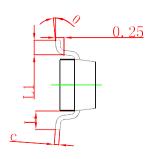


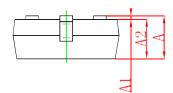
www.doeshare.net Page 3 of 5



SOT-23 Dimensions Size:

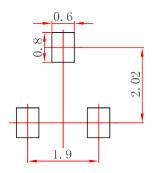






Symbol	Dimensions In Millimeters		Dimensions In Inches	
Зуппон	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
е	0.950 TYP		0.03	7 TYP
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.02	2 REF
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23 Suggested Pad Layout



- 1. Controlling dimension: in millimeters.
 2. General tolerance: ± 0.05mm.
 3. The pad layout is for reference purposes only.

Order Information

P/N	Meterial	Туре	Reel Size	MOQ
DN3400	Green	T/R	7 inch	3K

Page 4 of 5 www.doeshare.net



Important Notice and Disclaimer

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.

www.doeshare.net Page 5 of 5