

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

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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		

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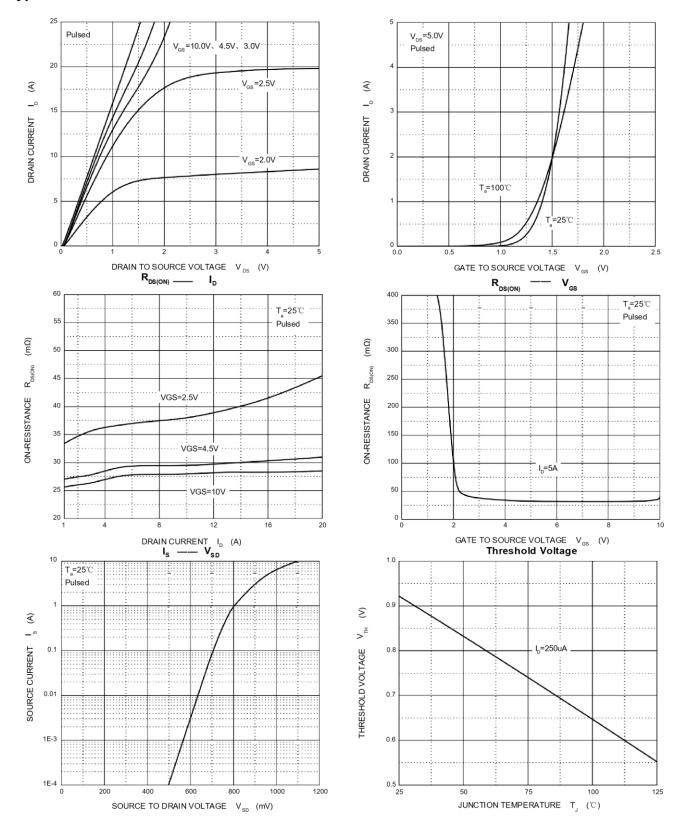
Note:
1.Repetitive Rating: Pulse width limited by maximum junction temperature.
2.Surface Mounted on FR4 Board, t < 5 sec.

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

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



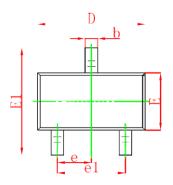
Typical Characteristics

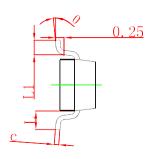


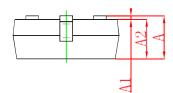
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SOT-23 Dimensions Size:

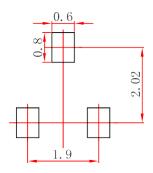






Symbol	Dimensions In Millimeters		Dimensions In Inches	
Зуппон	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
е	0.950 TYP		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

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