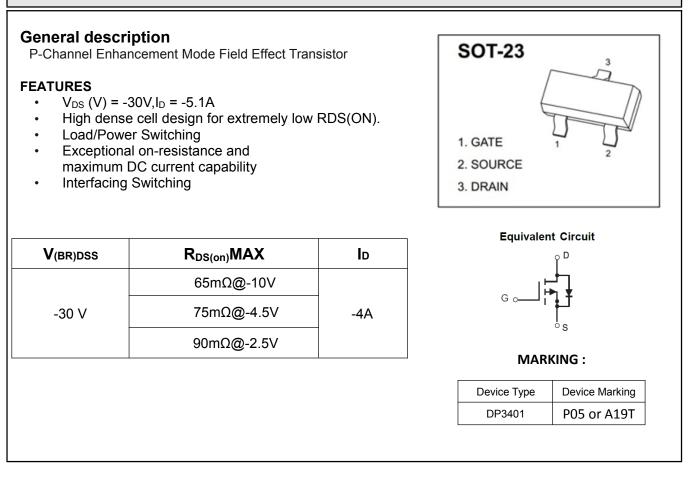




DP3401 P-Channel Enhancement Mode Field Effect Transistor



Maximum ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	VDS	-30	V
Gate-Source Voltage	Vgs	±12	V
Continuous Drain Current	lo	-4	А
Power Dissipation	PD	350	mW
Thermal Resistance from Junction to Ambient (t<5s)	R _{0JA}	357	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature	Тѕтс	-55~+150	°C

DP3401



■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Condition	Min	Тур	Max	Unit		
Off characteristics								
Drain-source breakdown voltage	V(BR)DSS	V _{GS} = 0V, I _D =-250µA	V _{GS} = 0V, I _D =-250µA -30			V		
Zero gate voltage drain current	ldss	V _{DS} =-24V,V _{GS} = 0V			-1	μA		
Gate-source leakage current	lgss	V _{GS} =±12V, V _{DS} = 0V			±100	nA		
On characteristics								
Drain-source on-resistance (note 1)	RDS(on)	V _{GS} =-10V, I _D =-4.2A		50	65	mΩ		
		V _{GS} =-4.5V, I _D =-4A		60	75	mΩ		
		V _{GS} =-2.5V,I _D =-1A		75	100	mΩ		
Forward tranconductance (note 1)	g fs	V _{DS} =-5V, I _D =-5A	7			S		
Gate threshold voltage	$V_{GS(th)}$	V _{DS} =V _{GS} , I _D =-250µA	-0.7	-0.9	-1.3	V		
Dynamic characteristics (note 2)								
Input capacitance	Ciss			954		pF		
Output capacitance	Coss	V _{DS} =-15V,V _{GS} =0V,f =1MHz		115		pF		
Reverse transfer capacitance	Crss			77		pF		
Switching characteristics (note 2)								
Turn-on delay time	td(on)				6.3	ns		
Turn-on rise time	tr	V _{GS} =-10V,V _{DS} =-15V, RL=3.6Ω,Rgen=6Ω			3.2	ns		
Turn-off delay time	td(off)				38.2	ns		
Turn-off fall Time	t _f				12	ns		
Drain-source diode characteristics and maximum ratings								
Diode forward voltage (note 1)	Vsd	I _S =-1A,V _{GS} =0V			-1	V		

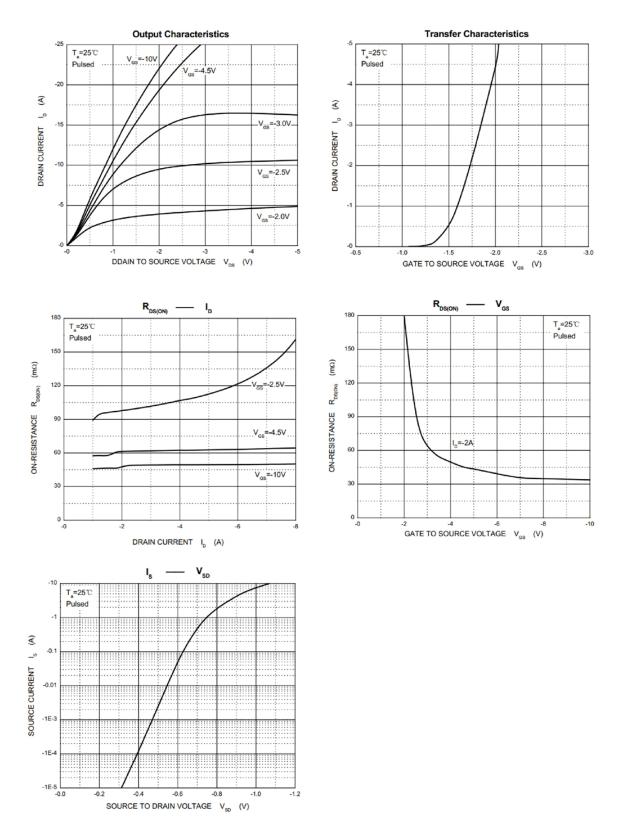
Note :

1. Pulse Test : Pulse width \leq 300µs, duty cycle \leq 2%.

2. These parameters have no way to verify.



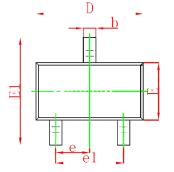
Typical Characteristics

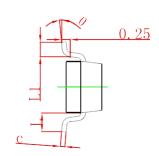


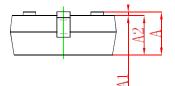
www.doeshare.net



SOT-23 Package Outline Dimensions

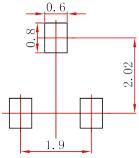






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
А	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 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	
θ	0°	8°	0°	8°	

SOT-23 Suggested Pad Layout



Note:

1.Controlling dimension: in millimeters.

2.General tolerance:± 0.05mm.3.The pad layout is for reference purposes only.



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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for MOSFET category:

Click to view products by Doeshare manufacturer:

Other Similar products are found below :

614233C 648584F IRFD120 IRFF430 JANTX2N5237 2N7000 FCA20N60_F109 FDZ595PZ AOD464 2SK2267(Q) 2SK2545(Q,T) 405094E 423220D MIC4420CM-TR VN1206L 614234A 715780A SSM6J414TU,LF(T 751625C PSMN4R2-30MLD TK31J60W5,S1VQ(O 2SK2614(TE16L1,Q) DMN1017UCP3-7 EFC2J004NUZTDG FCAB21350L1 P85W28HP2F-7071 DMN1053UCP4-7 NTE2384 NTE2969 NTE6400A DMN2080UCB4-7 DMN61D9UWQ-13 US6M2GTR DMN31D5UDJ-7 SSM6P54TU,LF DMP22D4UFO-7B IPS60R3K4CEAKMA1 DMN1006UCA6-7 DMN16M9UCA6-7 STF5N65M6 STU5N65M6 C3M0021120D DMN13M9UCA6-7 BSS340NWH6327XTSA1 MCM3400A-TP DMTH10H4M6SPS-13 IRF40SC240ARMA1 IPS60R1K0PFD7SAKMA1 IPS60R360PFD7SAKMA1 IPS60R600PFD7SAKMA1