

Micro Commercial Components



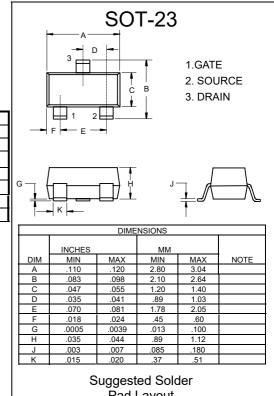
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

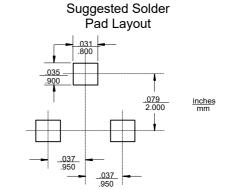
Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High dense cell design for extremely low R_{DS(ON)}
- Exceptional on-resistance and maximum DC current capability
- SOT-23 Package
- Marking Code: R1_A

P-Channel Enhancement Mode Field Effect Transistor

SI3401A

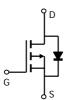




Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Parameter	Rating	Unit	
V _{DS}	Drain-source Voltage	-30	V	
I _D	Drain Current-Continuous	-4.2	A	
V _{GS}	Gate-source Voltage	±12	V	
PD	Total Power Dissipation	1.3	W	
R _{°JA}	Thermal Resistance Junction to Ambient	96 °C/W		
TJ	Operating Junction Temperature	emperature -55 to +150 °C		
T _{STG}	Storage Temperature	-55 to +150	°C	

Internal Block Diagram



www.mccsemi.com

2018/03/21





Micro Commercial Components

Electrical characteristics (T_a=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Тур	Max	Units
Off characteristics						
Drain-source breakdown voltage	V(BR)DSS	Vgs = 0V, Id =-250µA	-30			V
Zero gate voltage drain current	IDSS	V _{DS} =-24V,V _{GS} = 0V			-1	μA
Gate-source leakage current	lgss	Vgs =±12V, Vds = 0V			±100	nA
On characteristics						
Desire sources are resistent as		Vgs =-10V, Id =-4.2A		41	60	mΩ
Drain-source on-resistance	RDS(on)	Vgs =-4.5V, ID =-4A		47	70	mΩ
(note 1)		Vgs =-2.5V,Id=-1A		61	85	mΩ
Forward tranconductance (note 1)	gfs	VDS =-5V, ID =-5A	7			S
Gate threshold voltage	VGS(th)	V _{DS} =V _{GS} , I _D =-250µA	-0.7		-1.3	V
Dynamic characteristics (note 2)						
Input capacitance	Ciss			1050		pF
Output capacitance	Coss	VDS =-15V,VGS =0V,f =1MHz		127		pF
Reverse transfer capacitance	Crss			85		pF
Switching characteristics (note 2	2)	·				
Turn-on delay time	td(on)				6.5	ns
Turn-on rise time	tr	V _{GS} =-10V,V _{DS} =-15V,			3.5	ns
Turn-off delay time	td(off)	$R_L=3.6\Omega, R_{GEN}=6\Omega$			40	ns
Turn-off fall Time	tr]			13	ns
Drain-source diode characteristic	s and maxi	mum ratings	•			
Diode forward voltage (note 1)	V _{SD}	I _S =-1A,V _{GS} =0V			-1	V

Note :

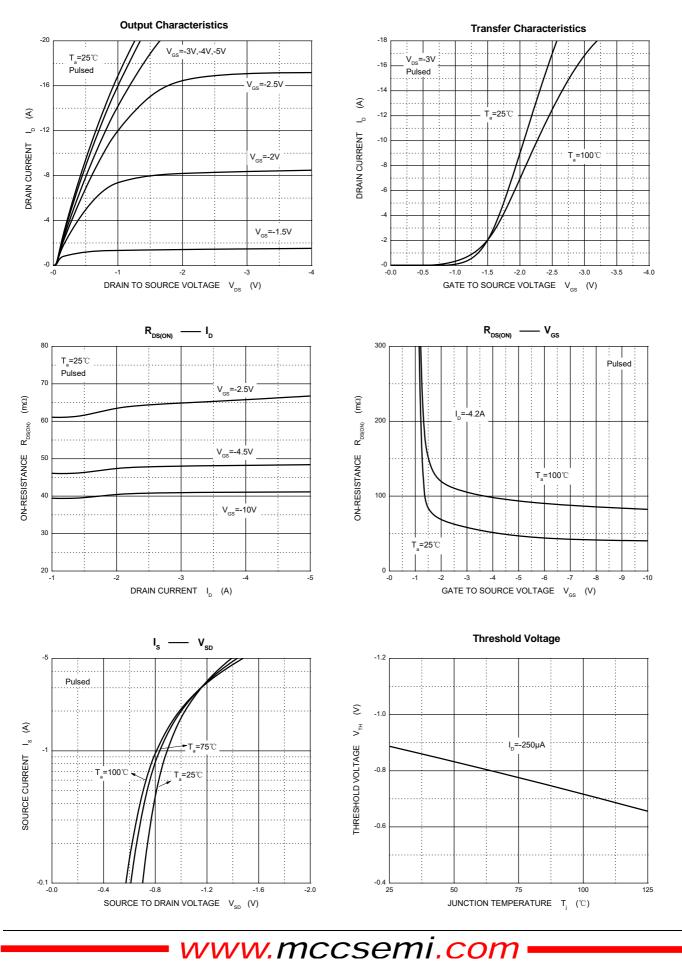
1. Pulse Test : Pulse width≤300µs, duty cycle≤2%.

2. These parameters have no way to verify.

www.mccsemi.com



Typical characteristics



Revision: B

Downloaded From Oneyac.com

2018/03/21



Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com



单击下面可查看定价,库存,交付和生命周期等信息

>>MCC