imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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

Features

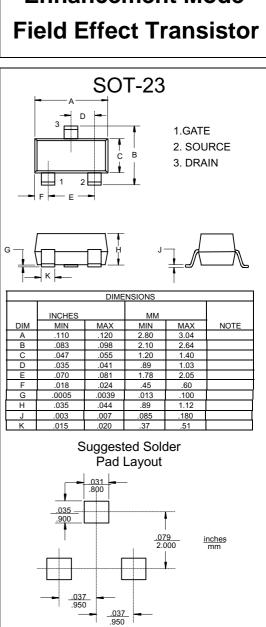
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking Code: 3407

Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Parameter	Rating	Unit	
V _{DS}	Drain-source Voltage	-30	V	
I _D	Drain Current-Continuous	-4.1	А	
V _{GS}	Gate-source Voltage	<u>+</u> 20	V	
PD	Power Dissipation	0.35	W	
R _{°JA}	Thermal Resistance Junction to Ambient	357	°C/W	
TJ	Operating Junction Temperature	-55 to +150	°C	
T _{STG}	Storage Temperature	-55 to +150	°C	

Equivalent Circuit





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SI3407

P-Channel Enhancement Mode Field Effect Transistor

2016/07/01



Parameter	Symbol	Test Condition	Min	Тур	Max	Units
Static characteristics					•	
Drain-source breakdown voltage	BVDSS	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	V _{GS} =±20V, V _{DS} = 0V			±100	nA
	_	Vgs =-10V, Id =-4.1A		50	60	mΩ
Drain-source on-resistance (note 1)	RDS(on)	Vgs =-4.5V, Id =-3A		68	87	mΩ
Forward tranconductance (note 1)	g FS	V _{DS} =-5V, I _D =-4A	5.5			S
Gate threshold voltage	VGS(th)	VDS =V _{GS} , ID =-250µA	-1	-1.4	-3	V
Diode forward voltage (note 1)	V _{SD}	I _S =-1A,V _{GS} =0V			-1	V
Dynamic characteristics (note 2)	•		•			
Input capacitance	Ciss			700		pF
Output capacitance	Coss	VDS =-15V,VGS =0V,f =1MHz		120		pF
Reverse transfer capacitance	Crss			75		pF
Switching Characteristics (note 2)	•		•			
Turn-on delay time	td(on)			8.6		ns
Turn-on rise time	tr	V _{GS} =-10V,V _{DS} =-15V,		5.0		ns
Turn-off delay time	td(off)	R _L =3.6Ω,R _{GEN} =3Ω		28.2		ns
Turn-off fall time	tr			13.5		ns

MOSFET ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Notes:

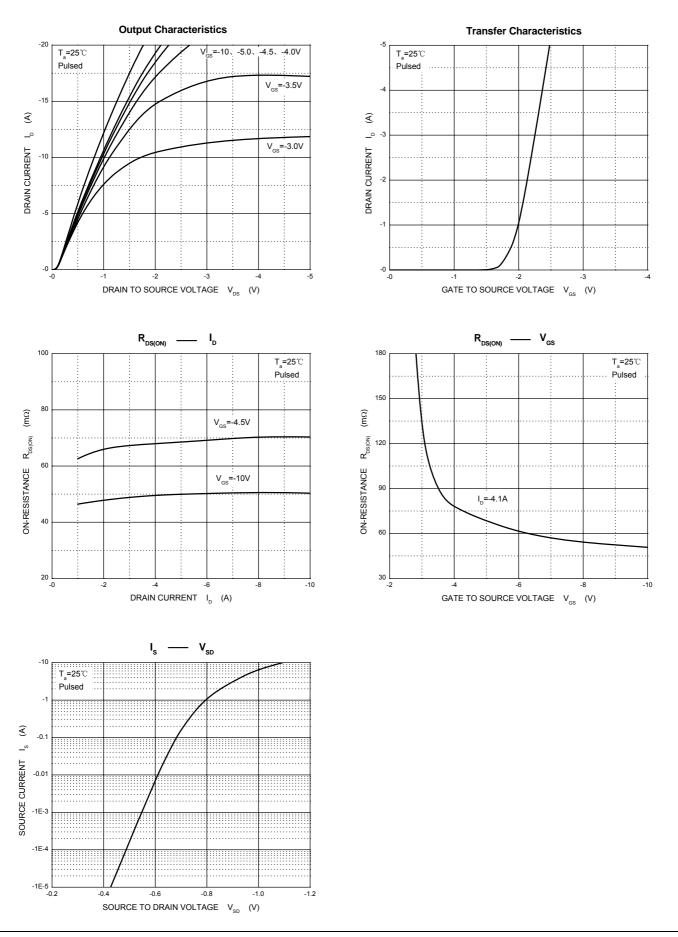
1. Pulse test: Pulse width \leq 300µs, duty cycle \leq 2%.

2. These parameters have no way to verify.

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Typical characteristics



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2016/07/01



Ordering Information :

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

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