



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 **SI3407**

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

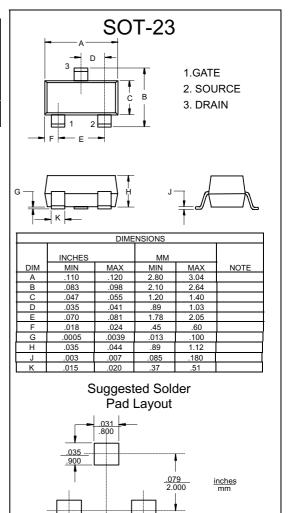
Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Parameter	Rating	Unit
V_{DS}	Drain-source Voltage	-30	V
I _D	Drain Current-Continuous	-4.1	Α
V_{GS}	Gate-source Voltage	± 20	V
P _D	Power Dissipation	0.35	W
R _{⊕JA}	Thermal Resistance Junction to Ambient	357	°C/W
T_J	Operating Junction Temperature	-55 to +150	$^{\circ}$ C
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

Equivalent Circuit



P-Channel Enhancement Mode Field Effect Transistor





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

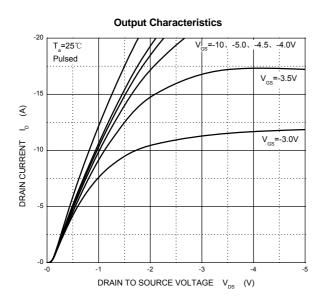
Parameter	Symbol	Test Condition	Min	Тур	Max	Units
Static characteristics			•		•	
Drain-source breakdown voltage	BVDSS	V _{GS} = 0V, I _D =-250μA	-30			V
Zero gate voltage drain current	IDSS	V _{DS} =-24V,V _{GS} = 0V			-1	μΑ
Gate-source leakage current	Igss	V _{GS} =±20V, V _{DS} = 0V			±100	nA
Drain course on resistance (note 1)	RDS(on)	V _{GS} =-10V, I _D =-4.1A		50	60	mΩ
Drain-source on-resistance (note 1)		V _{GS} =-4.5V, I _D =-3A		68	87	mΩ
Forward tranconductance (note 1)	g FS	V _{DS} =-5V, I _D =-4A	5.5			S
Gate threshold voltage	VGS(th)	V _{DS} =V _{GS} , I _D =-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	V _{DS} =-15V,V _{GS} =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 =3.6 Ω , R_{GEN} =3 Ω		28.2		ns
Turn-off fall time	t f			13.5		ns

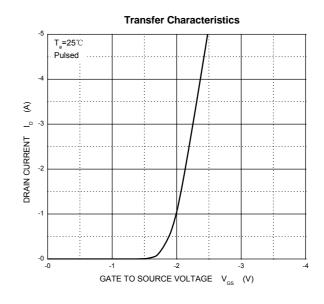
Notes:

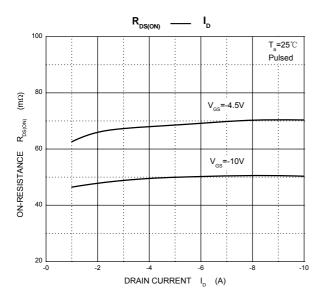
- 1. Pulse test: Pulse width ≤300µs, duty cycle ≤2%.
- 2. These parameters have no way to verify.

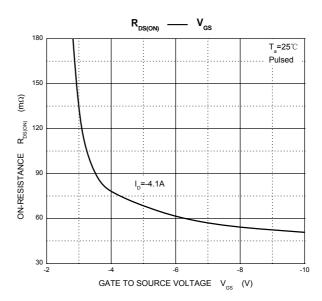


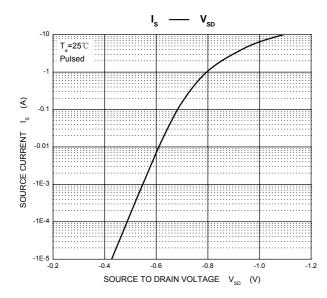
Typical characteristics













Ordering Information:

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

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