

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-23 Plastic-Encapsulate MOSFETS

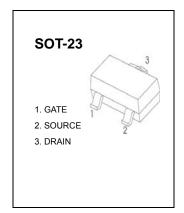
CJ3401 P-Channel Enhancement Mode Field Effect Transistor

FEATURE

- High dense cell design for extremely low R_{DS(ON)}.
- Exceptional on-resistance and maximum DC current capability

MARKING: R1





Maximum ratings (T_a=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Voltage	V_{GS}	±12	V
Continuous Drain Current	I _D	-4.2	Α
Power Dissipation	P _D	350	mW
Thermal Resistance from Junction to Ambient (t<5s)	$R_{\theta JA}$	357	°C/W
Junction Temperature	TJ	150	℃
Storage Temperature	T _{STG}	-55~+150	$^{\circ}$

Electrical characteristics ($T_a=25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Тур	Max	Units			
Off characteristics									
Drain-source breakdown voltage	V(BR)DSS	V _G S = 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} =±12V, V _{DS} = 0V			±100	nA			
On characteristics									
Drain-source on-resistance (note 1)	RDS(on)	Vgs =-10V, I _D =-4.2A			65	mΩ			
		V _G S =-4.5V, I _D =-4A			75	mΩ			
		Vgs =-2.5V,lp=-1A			90	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		-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,			3.2	ns			
Turn-off delay time	td(off)	R_L =3.6 Ω , R_{GEN} =6 Ω			38.2	ns			
Turn-off fall Time	tf				12	ns			
Drain-source diode characteristics and maximum 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.

Typical Characteristics

CJ3401

