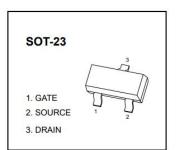


JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-CJ3401 Plastic-Encapsulated MOSFET

AD-CJ3401 P-Channel Enhancement Mode Field Effect Transistor

V _{(BR)DSS}	R _{DS(on), max}	I _D
	65mΩ @ -10V	
-30V	75mΩ @ -4.5V	-4.2A
	90mΩ @ -2.5V	



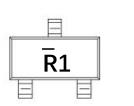
FEATURES

- High dense cell design for extremely low R_{DS(ON)}
- Exceptional on-state resistance and maximum DC current capability
- AEC-Q101 qualified

APPLICATIONS

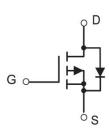
- Load/power switching
- Interfacing switching

MARKING



R1 = Device code

EQUIVALENT CIRCUIT



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MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

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
Pulsed drain current	I _{DM} ¹⁾	-16.8	Α
Power dissipation	P _D	350	mW
Thermal resistance from junction to ambient	RθJA	357	°C/W
Operating junction and storage temperature range	T _j , T _{stg}	-55 ~ 150	°C

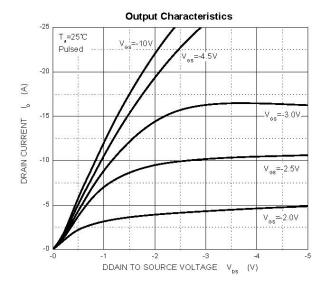
ELECTRICAL CHARACTERISTICS ($T_j = 25^{\circ}C$ unless otherwise specified)

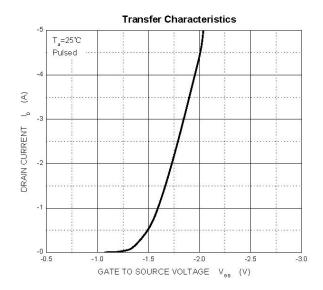
Symbol	Test condition	Min	Тур	Max	Unit
V _{(BR)DSS}	V _{GS} = 0V, I _D = -250μA	-30	-	-	V
I _{DSS}	V _{DS} = -24V, V _{GS} = 0V	-	-	-1	μA
I _{GSS}	V _{GS} = ±12V, V _{DS} = 0V	-	-	±100	nA
V _{GS(th)}	$V_{DS} = V_{GS}, I_{D} = -250 \mu A$	-0.7	-0.9	-1.3	V
g _{fs} 1)	V _{DS} = -5V, I _D = -5A	7	-	-	S
	V _{GS} = -10V, I _D = -4.2A	-	50	65	
R _{DS(on)} 1)	V _{GS} = -4.5V, I _D = -4A	-	60	75	mΩ
	V _{GS} = -2.5V, I _D = -1A		75	90	
		•			
Qg	V - 40V V - 04V I -	-	8.9	-	
Q _{gs}	$V_{GS} = -10V, V_{DD} = -24V, I_{D} = -4.2A$		1.6	-	nC
Q _{gd}			1.5	-	
C _{iss}		-	954	-	
Coss	V _{DS} = -15V, V _{GS} = 0V, f = 1MHz	-	115	-	pF
C _{rss}		-	77	-	
		•			•
t _{d(on)}		-	-	6.3	
t _{d(off)}	$V_{GS} = -10V, R_{GEN} = 6\Omega, V_{DS} =$	-	-	38.2	
t _r	-15V, R _L = 3.6Ω	-	-	3.2	ns
t _f		-	-	12	1
·					•
V _{SD} 1)	I _S = -1A, V _{GS} = 0V	-	-	-1	V
	$V_{(BR)DSS}$ I_{DSS} I_{GSS} $V_{GS(th)}$ $g_{fs}^{-1)}$ $R_{DS(on)}^{-1)}$ Q_{g} Q_{gs} Q_{gd} C_{iss} C_{oss} C_{rss} $t_{d(on)}$ $t_{d(off)}$ t_{r}	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

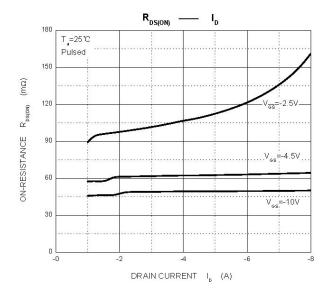
¹⁾ Pulse test: Pulse width ≤ 300µs, duty cycle ≤ 2%. 2)These parameters have no way to verify.

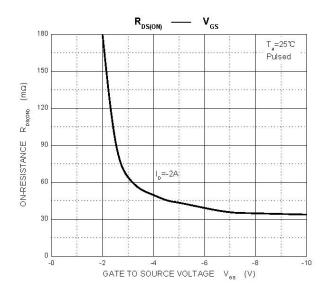
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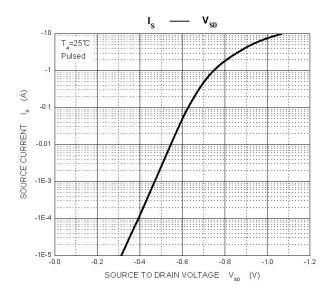
TYPICAL CHARACTERISTICS

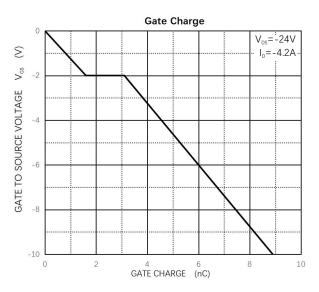






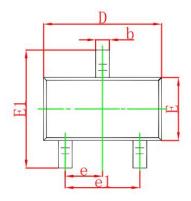


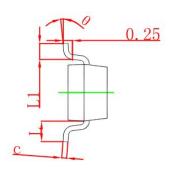


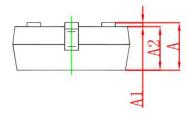


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SOT-23 PACKAGE OUTLINE DIMENSIONS

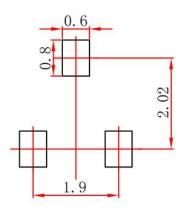






0	Dimensions	In Millimeters	Dimension	s In Inches
Symbol	Min	Max	Min	Max
Α	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.132	0.202	0.005	0.008
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e1	1.800	2.000	0.071	0.079
L	0.55	REF	0.022	REF
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

SOT-23 SUGGESTED PAD LAYOUT



Note:

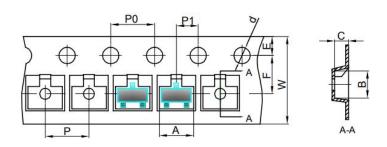
- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

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SOT-23 TAPE AND REEL

SOT-23 Embossed Carrier Tape

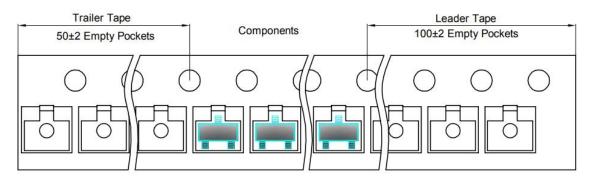


Packaging Description:

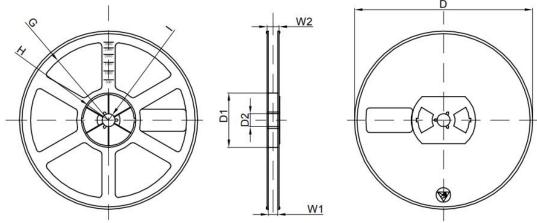
SOT-23 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type A B C d E F P0 P P1 \							W			
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer







Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	1	W1	W2
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	30,000 pcs	203×203×195	120,000 pcs	438×438×220	

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PUBLISHED BY

JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

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