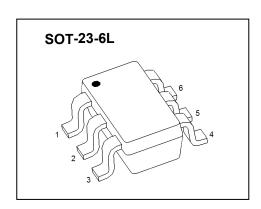


JISCJ JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD

GJCET SOT-23-6L Plastic-Encapsulate MOSFETS

CJL8205A Dual N-Channel MOSFET

V _{(BR)DSS}	R _{DS(on)} MAX	I _D
201/	30mΩ @ 4.5V	5A
20V	45mΩ@2.5V	5A



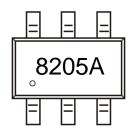
FEATURE

- TrenchFET Power MOSFET
- Excellent R_{DS(on)}
- Low Gate Charge
- High Power and Current Handing Capability
- Surface Mount Package

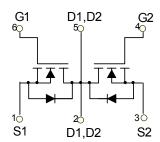
APPLICATION

- Battery Protection
- Load Switch
- **Power Management**

MARKING



Equivalent Circuit



ABSOLUTE MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V _{DS}	20	V
Gate-Source Voltage	V _{GS}	±10	V
Continuous Drain Current	I _D	6	Α
Pulsed Drain Current (note 1)	I _{DM}	25	А
Thermal Resistance from Junction to Ambient (note 2)	$R_{\theta JA}$	357	°C/W
Junction Temperature	TJ	150	℃
Storage Temperature	T _{STG}	-55~+150	$^{\circ}$
Lead Temperature for Soldering Purposes(1/8" from case for 10 s)	T∟	260	℃

MOSFET ELECTRICAL CHARACTERISTICS

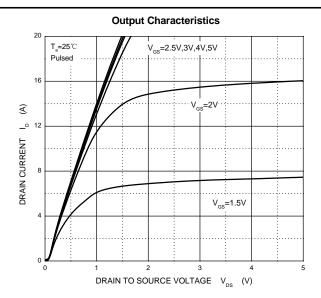
T_a=25 °C unless otherwise specified

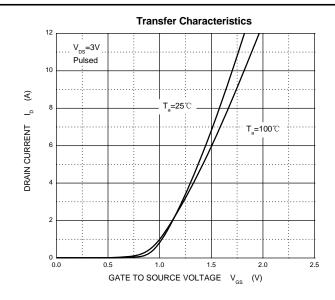
Parameter	Symbol	Symbol Test Condition		Тур	Max	Unit
STATIC CHARACTERICTISCS						
Drain-source breakdown voltage	V(BR)DSS	V _{GS} = 0V, I _D =250µA	19			V
Zero gate voltage drain current	IDSS	V _{DS} =18V,V _{GS} = 0V			1	μΑ
Gate-body leakage current	Igss	V _{GS} =±10V, V _{DS} = 0V			±100	nA
Gate threshold voltage (note 3)	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250μA	0.6	0.8	1.5	V
Drain course on registeres (note 2)	D	V _{GS} =4.5V, I _D =3A		23	30	mΩ
Drain-source on-resistance (note 3)	RDS(on)	V _{GS} =2.5V, I _D =3A		30	45	mΩ
Forward tranconductance (note 3)	g FS	V _{DS} =5V, I _D =4.5A		12		S
Diode forward voltage (note 3)	V _{SD}	I _S =1.25A, V _{GS} = 0V			1.2	V
DYNAMIC CHARACTERICTISCS (n	ote4)					
Input Capacitance	C _{iss}			815		pF
Output Capacitance	Coss	V _{DS} =8V,V _{GS} =0V,f =1MHz		158		pF
Reverse Transfer Capacitance	C _{rss}			124		pF
SWITCHING CHARACTERICTISCS	(note 4)		•			
Turn-on delay time	t _{d(on)}			16		ns
Turn-on rise time	tr	V _{DD} =10V,V _{GS} =4V,		8		ns
Turn-off delay time	td(off)	$I_D=1A,R_{GEN}=10\Omega$		36		ns
Turn-off fall time	tf			18		ns
Total Gate Charge	Qg			14		nC
Gate-Source Charge	Q _{gs}	V _{DS} =10V,V _{GS} =4.5V,I _D =4A		2.5		nC
Gate-Drain Charge	Q_{gd}			2.5		nC

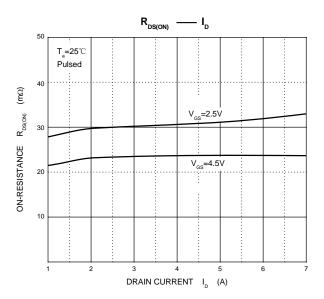
Notes:

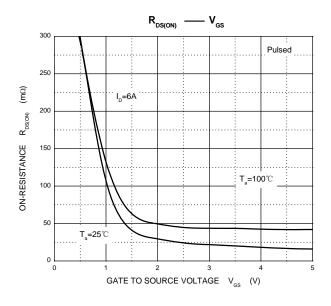
- 1.Repetitive rating: Pluse width limited by maximum junction temperature
- 2.Surface Mounted on FR4 board, $t \le 10$ sec.
- 3. Pulse test : Pulse width≤300µs, duty cycle≤2%.
- 4. Guaranteed by design, not subject to production.

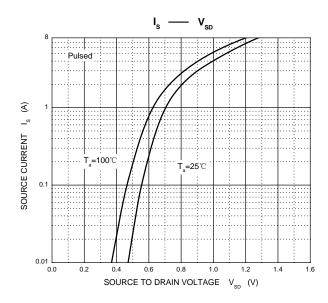
Typical Characteristics

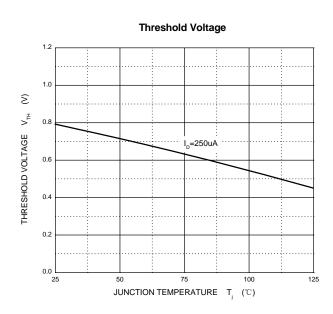




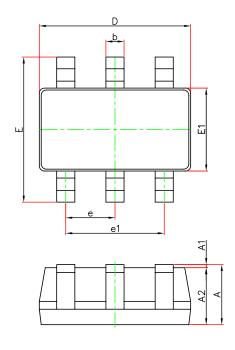


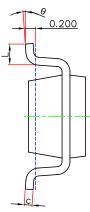






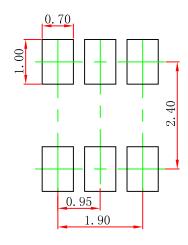
SOT-23-6L Package Outline Dimensions





Symbol	Dimensions In	n Millimeters	Dimensions In Inches		
Syllibol	Min.	Max.	Min.	Max.	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.300	0.500	0.012	0.020	
С	0.100	0.200	0.004	0.008	
D	2.820	3.020	0.111	0.119	
E1	1.500	1.700	0.059	0.067	
E	2.650	2.950	0.104	0.116	
е	0.950(BSC)		0.037	(BSC)	
e1	1.800	2.000	0.071	0.079	
L	0.300	0.600	0.012	0.024	
θ	0°	8°	0°	8°	

SOT-23-6L Suggested Pad Layout



Note:

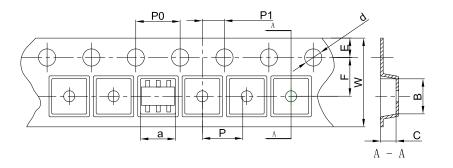
- 1. Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

NOTICE

JSCJ reserves the right to make modifications,enhancements,improvements,corrections or other changes without further notice to any product herein. JSCJ does not assume any liability arising out of the application or use of any product described herein.

SOT-23-6L Tape and Reel

SOT-23-6L Embossed Carrier Tape

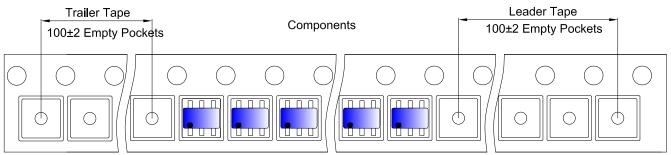


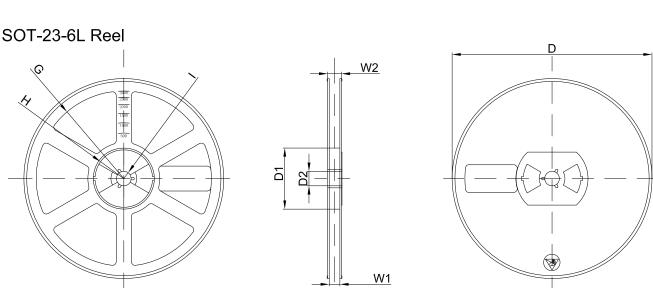
Packaging Description:

SOT-23-6L 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 18.0cm 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-23-6L	3.17	3.23	1.37	Ø1.55	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23-6L Tape Leader and Trailer





Dimensions are in millimeter								
Reel Option	D	D1	D2	G	Н	I	W1	W2
7"Dia	Ø180.00	60.00	13.00	R78.00	R25.60	R6.50	9.50	13.10

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