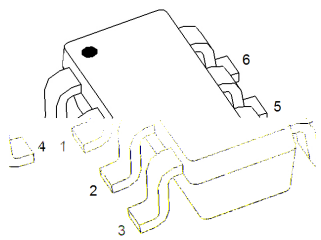
SOT-23-6L Plastic-Encapsulate

CJL2623 Dual P-Channel MOSFET

$V_{(BR)DSS}$	$R_{DS(on)}$MAX	I_D
-30V	130mΩ@-10V	-3A
	180mΩ@-4.5V	

SOT-23-6L



FEATURE

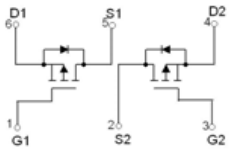
- TrenchFET Power MOSFET
- Low Gate Charge
- Low On-resistance
- Surface Mount Package

APPLICATION

- DC/DC converter
- Load switch for portable devices
- Commercial-industrial applications

MARKING:

Equivalent Circuit



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

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V_{DS}	-30	V
Gate-Source Voltage	V_{GS}	±20	V
Continuous Drain Current	I_D	-3	A
Pulsed Drain Current (note 1)	I_{DM}	-20	A
Power Dissipation (note 2)	P_D	0.35	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	357	℃/W
Junction Temperature	T_J	150	℃
Storage Temperature	T_{STG}	-55~ 150	℃

Notes : 1. Pulse width limited by Max.junction temperature.

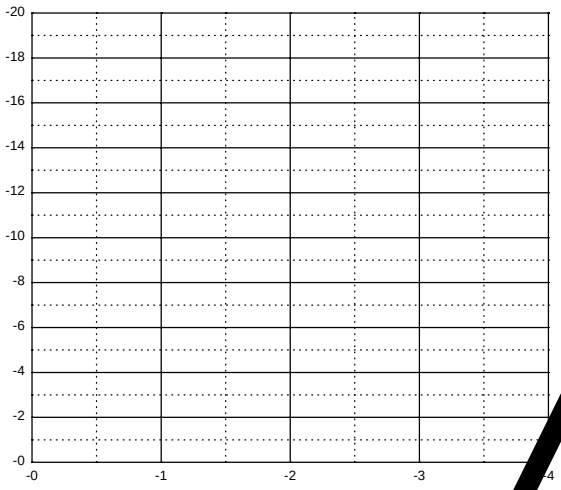
2.Per element must not be exceeded

MOSFET ELECTRICAL CHARACTERISTICS

T_a=25℃ unless otherwise specified

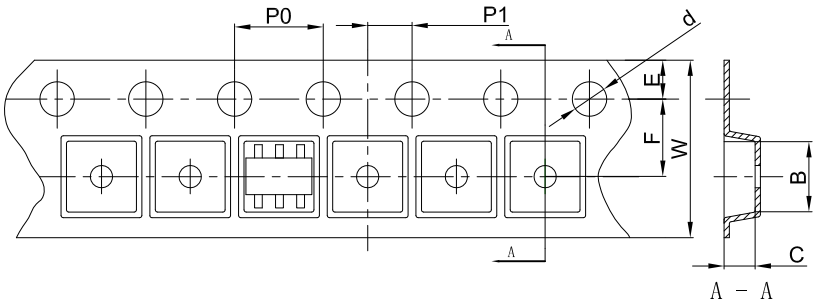
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
STATIC PARAMETERS						
Drain-source breakdown voltage	$V_{(BR)DSS}$	V_{GS} = 0V, I_D =-250μA	-30			V
Zero gate voltage drain current	I_{DSS}	V_{DS} =-30V,V_{GS} = 0V			-1	μA
Gate-body leakage current	I_{GSS}	V_{GS} =±20V, V_{DS} = 0V			±100	nA
Gate threshold voltage	$V_{GS(th)}$	V_{DS} =V_{GS}, I_D =-250μA	-1		-3	V
Drain-source on-resistance (note 3)	$R_{DS(on)}$	V_{GS} =-10V, I_D =-3A			130	mΩ
		V_{GS} =-4.5V, I_D =-2A			180	mΩ
Forward tranconductance	g_{FS}	V_{DS} =-5V, I_D =-2A		2		S
Diode forward voltage (note 3)	V_{SD}	I_S=-1A, V_{GS} = 0V			-1.2	V
DYNAMIC PARAMETERS(note 4)						
Input Capacitance	C_{iss}	V_{DS} =-25V,V_{GS} =0V,f =1MHz			240	pF
Output Capacitance	C_{oss}			42		pF
Reverse Transfer Capacitance	C_{rss}			32		pF
SWITCHING PARAMETERS (note 3,4)						
Turn-on delay time	$t_{d(on)}$	V_{DD}=-15V,V_{GS}=-10V,I_D=-1A R_D=15Ω,R_G=3.3Ω		5		ns
Turn-on rise time	t_r			6		ns
Turn-off delay time	$t_{d(off)}$			15		ns
Turn-off fall time	t_f			3		ns
Total Gate Charge	Q_g	V_{DS} =-24V,V_{GS} =-4.5V,I_D=-2A			4.5	nC

Typical Characteristics



NOTICE

JCET reserve the right to make modifications.



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*