



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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SIL2623

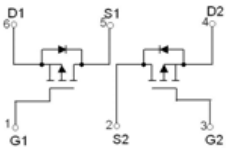
Features

- 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: 2623

Maximum Ratings @ 25°C Unless Otherwise Specified

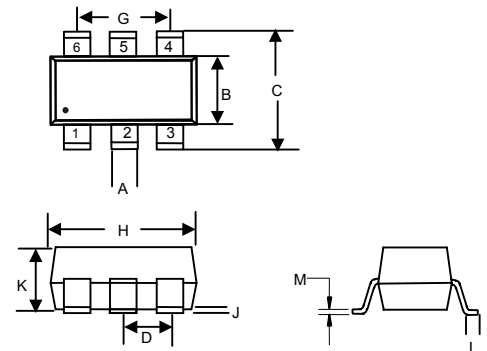
Symbol	Parameter	Rating	Unit
V_{DS}	Drain-source Voltage	-30	V
I_D	Drain Current-Continuous	-3.0	A
I_{DM}	Pulsed Drain Currents	-20	A
V_{GS}	Gate-source Voltage	± 20	V
P_D	Power Dissipation	0.35	W
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	357	$^{\circ}C/W$
T_J	Operating Junction Temperature	-55 to +150	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

Equivalent Circuit



Dual P-Channel Enhancement Mode Field Effect Transistor

SOT23-6L



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.012	.020	0.30	0.50	
B	.051	.070	1.30	1.80	
C	.087	.126	2.20	3.20	
D	.037		0.95BSC		
G	.074		1.90BSC		
H	.106	.122	2.70	3.10	
J	.002	.006	0.05	0.15	
K	.035	.051	0.90	1.30	
L	.012	.024	0.30	0.60	
M	.003	.008	0.08	0.22	

MOSFET ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

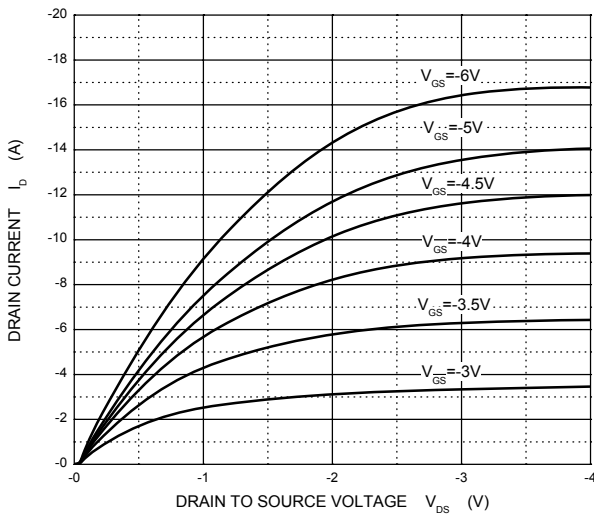
Parameter	Symbol	Test Condition	Min	Typ	Max	Units
Static characteristics						
Drain-source breakdown voltage	BV _{DSS}	V _{GS} = 0V, I _D = -250μA	-30			V
Zero gate voltage drain current	I _{DSS}	V _{DS} = -30V, V _{GS} = 0V			-1	μA
Gate-source leakage current	I _{GSS}	V _{GS} = ±20V, V _{DS} = 0V			±100	nA
Drain-source on-resistance (note 1)	R _{DS(on)}	V _{GS} = -10V, I _D = -3.0A			130	mΩ
		V _{GS} = -4.5V, I _D = -2.0A			180	mΩ
Forward transconductance (note 1)	g _{FS}	V _{DS} = -5V, I _D = -2A		2.0		S
Gate threshold voltage	V _{GS(th)}	V _{DS} = V _{GS} , I _D = -250μA	-1		-3	V
Diode forward voltage (note 1)	V _{SD}	I _S = -1A, V _{GS} = 0V			-1.2	V
Dynamic characteristics (note 2)						
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 Characteristics (note 2)						
Turn-on delay time	t _{d(on)}	V _{GS} = -10V, V _{DD} = -15V, 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
Gate-Source Charge	Q _{gs}			0.5		nC
Gate-Drain Charge	Q _{gd}			1.4		nC

Notes:

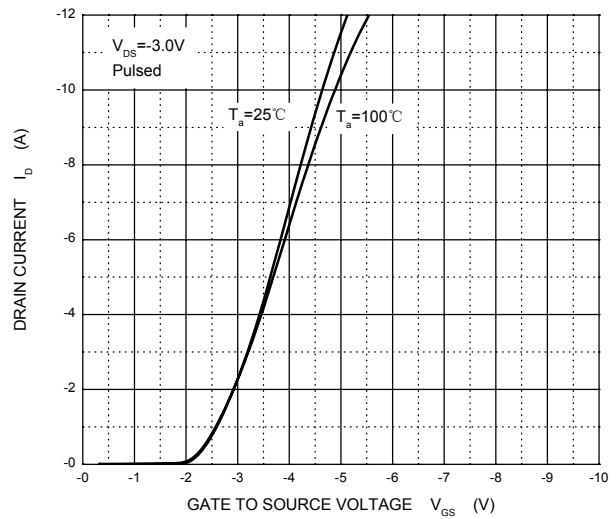
1. Pulse test: Pulse width ≤ 300μs, duty cycle ≤ 2%.
2. These parameters have no way to verify.

Typical characteristics

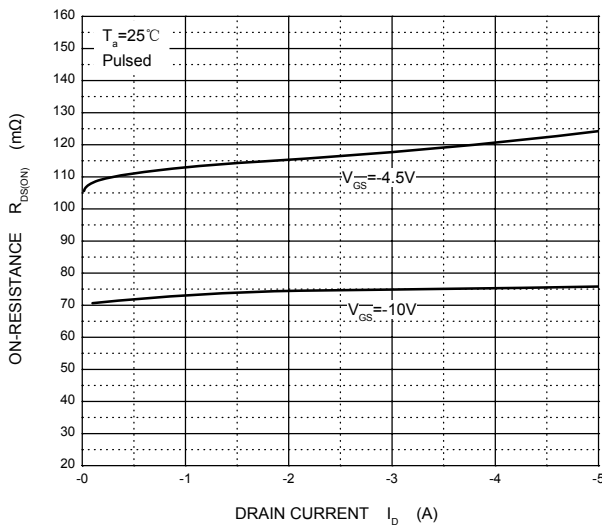
Output Characteristics



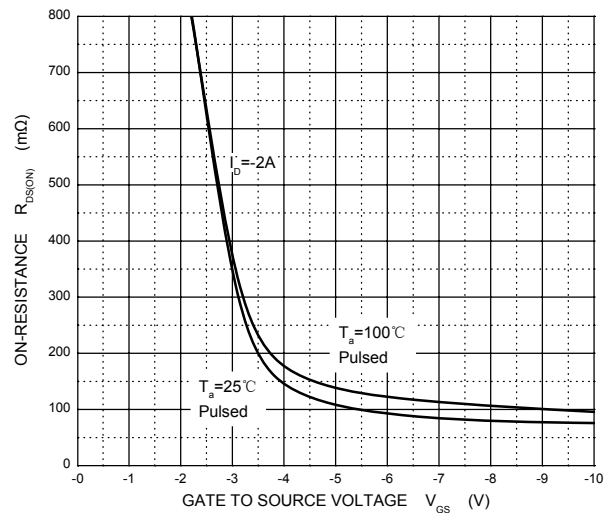
Transfer Characteristics



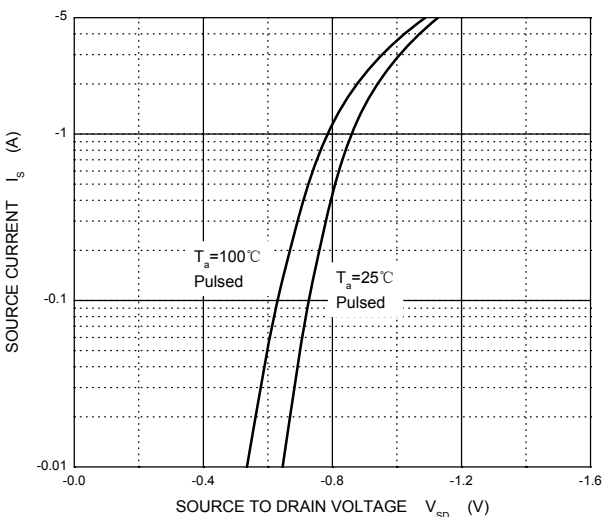
$R_{DS(ON)}$ — I_D



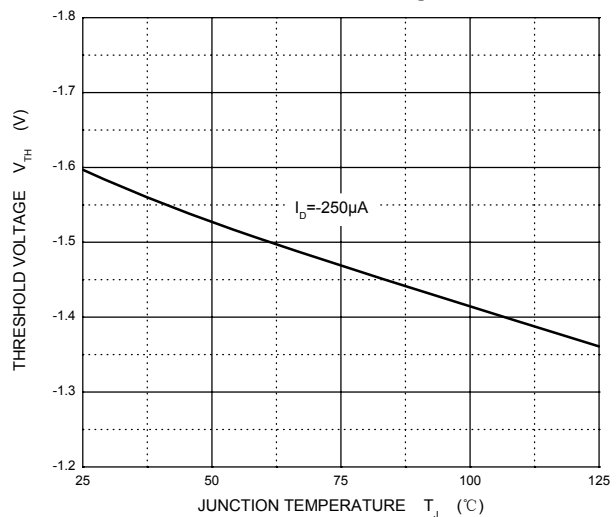
$R_{DS(ON)}$ — V_{GS}



I_S — V_{SD}



Threshold Voltage





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Ordering Information :

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

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