



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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SIL2623

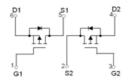
Features

- 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

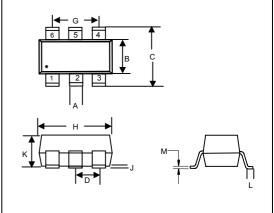
Symbol	Parameter	Rating	Unit	
V_{DS}	Drain-source Voltage	-30	V	
I _D	Drain Current-Continuous	-3.0	Α	
I _{DM}	Pulsed Drain Currents	-20	Α	
V_{GS}	Gate-source Voltage	± 20	V	
P _D	Power Dissipation	0.35	W	
R⊕JA	Thermal Resistance Junction to Ambient	357	°C/W	
Τ _J	Operating Junction Temperature	-55 to +150	$^{\circ}\mathbb{C}$	
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$	

Equivalent Circuit



Dual P-Channel Enhancement Mode Field Effect Transistor

SOT23-6L



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



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

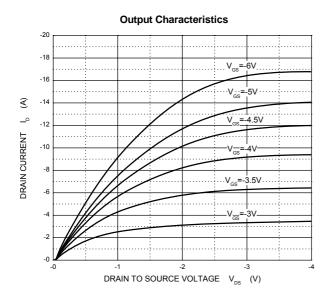
Parameter	Symbol	Test Condition	Min	Тур	Max	Units
Static characteristics	•		•		ı	
Drain-source breakdown voltage	BVDSS	V _{GS} = 0V, I _D =-250μA	-30			V
Zero gate voltage drain current	Ipss	V _{DS} =-30V,V _{GS} = 0V			-1	μA
Gate-source leakage current	Igss	V _{GS} =±20V, V _{DS} = 0V			±100	nA
Drain-source on-resistance (note 1)	RDS(on)	V _{GS} =-10V, I _D =-3.0A			130	mΩ
		V _{GS} =-4.5V, I _D =-2.0A			180	mΩ
Forward tranconductance (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	Ciss				240	pF
Output capacitance	Coss	V _{DS} =-25V,V _{GS} =0V,f =1MHz		42		pF
Reverse transfer capacitance	Crss			32		pF
Switching Characteristics (note 2)						
Turn-on delay time	t _{d(on)}			5		ns
Turn-on rise time	tr	V _{GS} =-10V,V _{DD} =-15V,I _D =-1A,		6		ns
Turn-off delay time	td(off)	R_D =15 Ω , R_G =3.3 Ω		15		ns
Turn-off fall time	t f			3		ns
Total Gate Charge	Qg	\\ - 04\\\\ - 4.5\\\\ - 04			4.5	nC
Gate-Source Charge	Qgs	V_{DS} =-24V, V_{GS} =-4.5V, I_{D} =-2A		0.5		nC
Gate-Drain Charge	Qgd]		1.4		nC

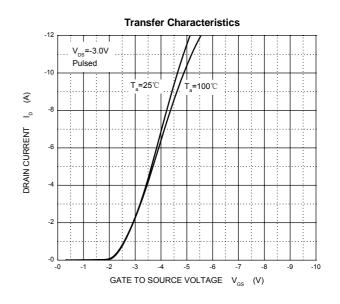
Notes:

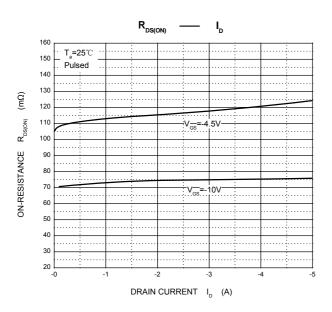
- 1. Pulse test: Pulse width ≤300µs, duty cycle ≤2%.
- 2. These parameters have no way to verify.

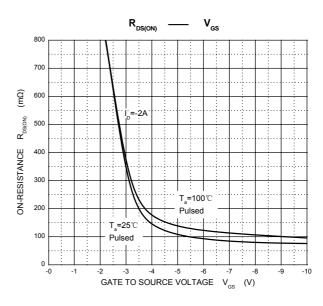


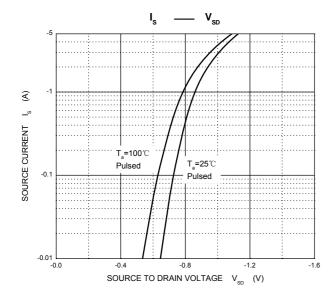
Typical characteristics

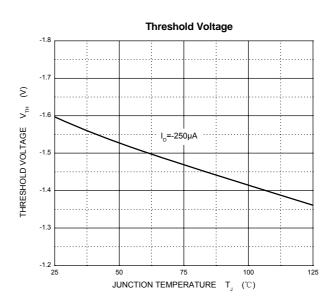














Ordering Information:

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

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