

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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SI3134KE

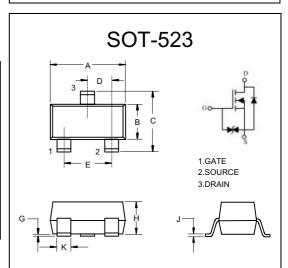
Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Low On-Resistance
- High-Side Switching
- Low Threshold
- Fast Switching Speed

Absolute maximum ratings @ 25 ℃

Symbol	Parameter	Value	Unit	
V _{DS}	Drain-source Voltage	20	٧	
V_{GS}	Gate-source Voltage	±12	V	
I _D	Continuous Drain Current	0.75	Α	
I _{DM}	Pulsed Drain Current (1)	3	Α	
P _D	Total Power Dissipation ⁽²⁾	150	mW	
TJ	Operating Junction Temperature	-55 to +150	$^{\circ}$ C	
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$	
RthJA	Thermal Resistance fromJunction to Ambient	833	°C/W	

N-Channel MOSFET



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.059	.067	1.50	1.70	
В	.030	.033	0.75	0.85	
С	.057	.069	1.45	1.75	
D	.020 Nominal		0.50Nominal		
Е	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
Н	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	



ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise noted)

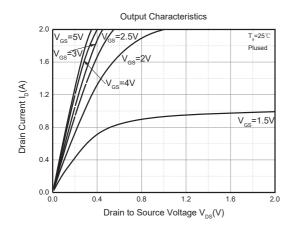
Parameter	Symbol	Test Condition	Min	Туре	Max	Unit	
Static Characteristics							
Drain-source breakdown voltage	V _{(BR)DSS}	$V_{GS} = 0V, I_D = 250\mu A$	20			V	
Zero gate voltage drain current	I _{DSS}	$V_{DS} = 20V, V_{GS} = 0V$			1	μΑ	
Gate-body leakage current	I _{GSS}	$V_{GS} = \pm 10 V, V_{DS} = 0 V$			±20	μΑ	
Gate threshold voltage ⁽³⁾	$V_{GS(th)}$	$V_{DS} = V_{GS}$, $I_D = 250 \mu A$	0.35	0.75	1.1	V	
		V _{GS} =4.5V, I _D =650mA		190	380		
Drain-source on-resistance ⁽³⁾	R _{DS(on)}	V _{GS} =2.5V, I _D =550mA		260	450	$m\Omega$	
		V _{GS} =1.8V, I _D =450mA		390	800		
Forward tranconductance	g _{FS}	V _{DS} =10V, I _D =800mA	1			S	
Dynamic characteristics ⁽⁴⁾							
Input Capacitance	C _{iss}				120	pF	
Output Capacitance	C _{oss}				20		
Reverse Transfer Capacitance	C _{rss}				15		
Switching Characteristics ⁽⁴⁾							
Turn-on delay time	t _{d(on)}			6.7			
Turn-on rise time	t _r	V_{DD} =10V, I_D =500mA,		4.8			
Turn-off delay time	t _{d(off)}	$V_{GS}=4.5V, R_{G}=10\Omega$ 17.3		17.3		ns	
Turn-off fall time	t _f]		7.4			
Source-Drain Diode characteristics	-		·	•			
Diode Forward voltage ⁽³⁾	V_{DS}	I _S =0.15A, V _{GS} = 0V			1.2	V	

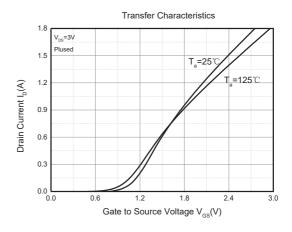
Notes:

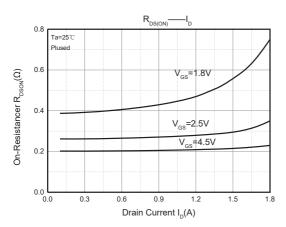
- 1. Repetitive Rating: Pulse width limited by maximum junction temperature.
- 2. This test is performed with no heat sink at Ta=25 $^{\circ}$ C.
- 3. Pulse Test : Pulse Width≤300µs, Duty Cycle≤0.5%.
- 4. These parameters have no way to verify.

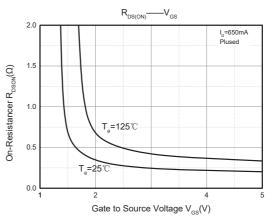


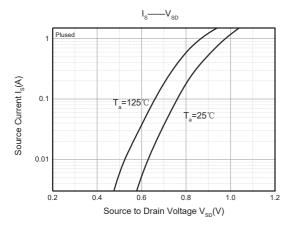
Typical Characteristics

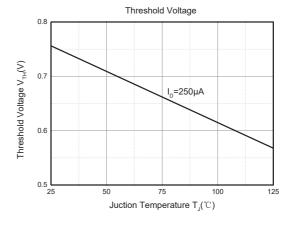














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Ordering Information:

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

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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