

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

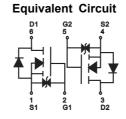
Phone: (818) 701-4933 Fax: (818) 701-4939

SIX3134K

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- N-Channel switch with Low R_{DS(ON)}
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1 Marking:

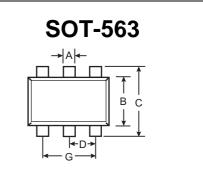


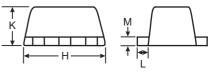


Maximum Ratings @ 250C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V_{DS}	Drain-Source Voltage	20	V
V_{GS}	Gate-Source Voltage	±12	V
I_D	Continuous Drain Current	0.75	Α
P _D	Power Dissipation (note1)	0.15	W
R_{thJA}	Thermal Resistance from Junction to Ambient	833	°C/W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55~150	°C

Dual N-Channel MOSFET





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.006	.011	0.15	0.30	
В	.043	.049	1.10	1.25	
С	.061	.067	1.55	1.70	
D	.02	0	0.	50	
G	.035	.043	0.90	1.10	
Н	.059	.067	1.50	1.70	
K	.022	.023	0.56	0.60	
L	.004	.011	0.10	0.30	
М	.004	.007	0.10	0.18	

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ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise noted)

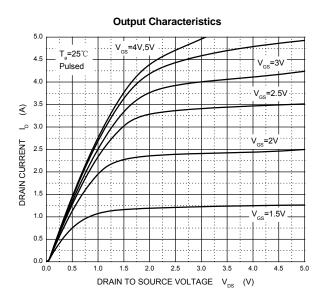
Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
STATIC PARAMETERS						
Drain-source breakdown voltage	V (BR) DSS	V _G S = 0V, I _D =250µA	20			V
Zero gate voltage drain current	IDSS	V _{DS} =20V,V _{GS} = 0V			1	μA
Gate-body leakage current	Igss	V _{GS} =±10V, V _{DS} = 0V			±20	μA
Gate threshold voltage (note 2)	VGS(th)	V _{DS} =V _{GS} , I _D =250μA	0.35	0.54	1.1	٧
		V _{GS} =4.5V, I _D =0.65A		270	380	mΩ
Drain-source on-resistance (note 2)	R _{DS(on)}	Vgs =2.5V, ID =0.55A		320	450	mΩ
		V _{GS} =1.8V, I _D =0.45A		390	800	mΩ
Forward tranconductance (note 2)	g FS	V _{DS} =10V, I _D =0.8A		1.6		S
Diode forward voltage(note 2)	V _{SD}	I _S =0.15A, V _{GS} = 0V			1.2	V
DYNAMIC PARAMETERS (note 3)						
Input Capacitance	C _{iss}			79	120	pF
Output Capacitance	C _{oss}	V _{DS} =16V,V _{GS} =0V,f =1MHz		13	20	pF
Reverse Transfer Capacitance	C_{rss}			9	15	pF
SWITCHING PARAMETERS(note 3)						
Turn-on delay time	td(on)			6.7		ns
Turn-on rise time	tr	V _{GS} =4.5V,V _{DS} =10V,		4.8		ns
Turn-off delay time	td(off)	I_D =0.5A, R_{GEN} =10 Ω		17.3		ns
Turn-off fall time	tf			7.4		ns
Total Gate Charge	Qg			20		nC
Gate-Source Charge	Q _{gs}	V _{DS} =10V,V _{GS} =4.5V,I _D =7A		1		nC
Gate-Drain Charge	Q_{gd}			4		nC

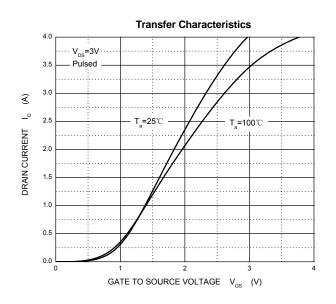
Notes:

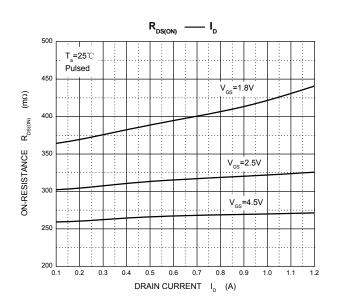
- 1. Repetitive rating : Pulse width limited by junction temperature.
- 2. Pulse Test : Pulse width≤300µs, duty cycle≤0.5%.
- 3. Guaranteed by design, not subject to production testing.

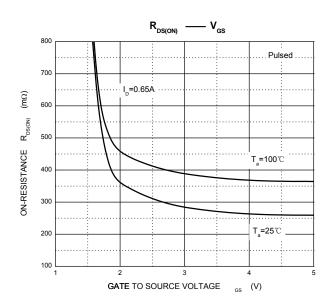
Typical Characteristics

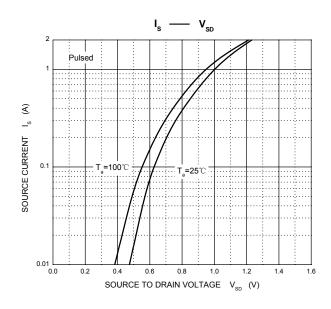


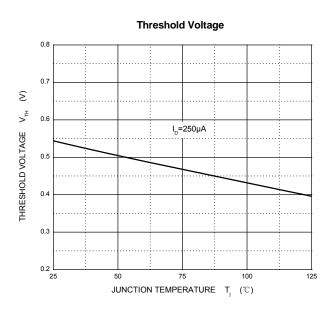














Ordering Information:

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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