

Micro Commercial Components



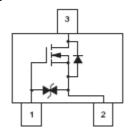
Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

SI3134K

Features

- Lead Free Product is Acquired
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Operated at Low Logic Level Gate Drive
- N-Channel Switch with Low RDS(on)
- Surface Mount Package
- Marking : KF



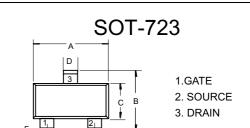
Absolute maximum ratings @ 25 ℃

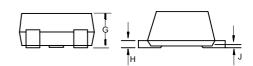
Symbol	Parameter	Value	Unit
V _{DS}	Drain-source Voltage	20	V
V_{GS}	Gate-source Voltage	±12	V
I_D	Continuous Drain Current	0.75	Α
I_{DM}	Pulsed Drain Current	1.8	Α
P_{D}	Total Power Dissipation	150	mW
TJ	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$
T_L	Lead Temperature for Soldering Purposes	260	$^{\circ}\mathbb{C}$
RthJA	Thermal Resistance from Junction to Ambient	833	°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter		Min	Тур	Max	Units
V _{(BR)DSS}	Drain-Source Break (V _{GS} =0Vdc, I _D =25	20			Vdc	
$V_{GS(th)}$	Gate-Threshold Voltage (V _{DS} =V _{GS} , I _D =250uAdc)		0.35	-	1.0	Vdc
I _{GSS}	Gate-body Leakage (V _{DS} =0Vdc, V _{GS} =±12Vdc)				±50	uA
I _{DSS}	Zero Gate Voltage Drain Current (V _{DS} =20Vdc, V _{GS} =0Vdc)		-		1	uAdc
V _{SD}	Diode Forward Volting (I _S =0.15A,V _{GS} =0V			1.2	Vdc	
r _{DS(on)}	Drain-Source On-Resistance (V_{GS} =4.5Vdc, I_D =0.65Adc) (V_{GS} =2.5Vdc, I_D =0.55Adc) (V_{GS} =1.8Vdc, I_D =0.45Adc)		 	 	0.38 0.45 0.80	Ω
g FS	Forward transconductance (V _{DS} =10Vdc, I _D =0.8Adc)			1.6		S
C _{iss}	Input Capacitance	V _{DS} =16Vdc,		79	120	
Coss	Output Capacitance	$V_{GS} = 10 \text{ VdC}$		13	20	pF
C _{rSS}	Reverse Transfer capacitance	f=1MHz		9	15	φ.
t _{d(on)}	Turn-on Time	V _{GS} =4.5V, V _{DS} =10V		6.7		
$t_{\text{d(off)}}$	Turn-off Time	I _D =500mA		17.3		ns
t _r	Rise Time	$R_{GEN}=10\Omega$		4.8		
t _r	Fall Time			7.4		

N-Channel MOSFET



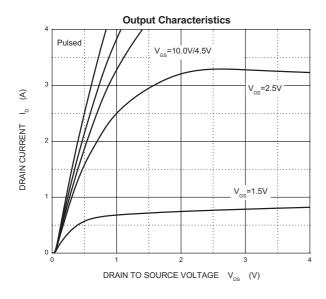


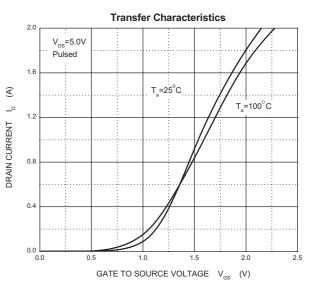
DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.045	.049	1.15	1.25	
В	.045	.049	1.15	1.25	
С	.030	.033	0.75	0.85	
D	.011	.015	0.27	0.37	
Е	0.031	TYP.	0.80	OTYP.	
F	.007	.011	0.17	0.27	
G	.017	.020	0.43	0.50	
Н	.003	.006	0.08	0.15	
J	.000	.002	0.00	0.05	

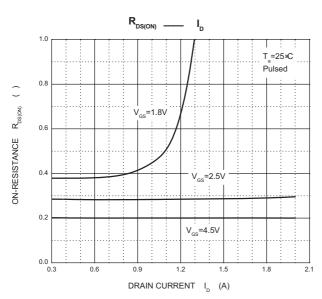
SI3431K

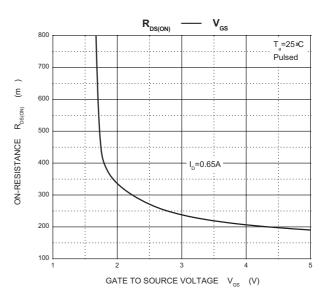


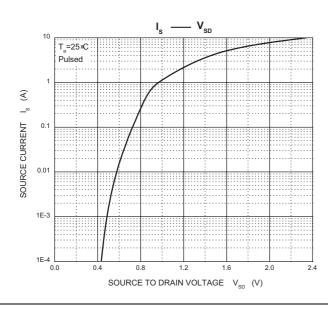
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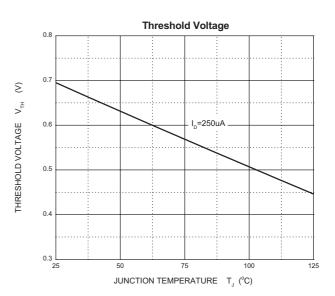














Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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

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