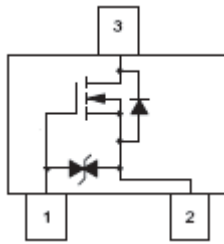




SI3134K

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 °C

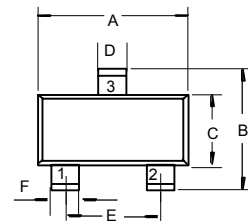
Symbol	Parameter	Value	Unit
V _{DS}	Drain-source Voltage	20	V
V _{GS}	Gate-source Voltage	± 12	V
I _D	Continuous Drain Current	0.75	A
I _{DM}	Pulsed Drain Current	1.8	A
P _D	Total Power Dissipation	150	mW
T _J	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C
T _L	Lead Temperature for Soldering Purposes	260	°C
R _{thJA}	Thermal Resistance from Junction to Ambient	833	°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

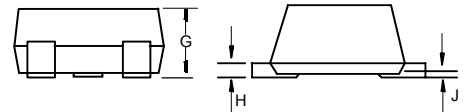
Symbol	Parameter	Min	Typ	Max	Units
V _{(BR)DSS}	Drain-Source Breakdown Voltage (V _{GS} =0Vdc, I _D =250µAdc)	20	---	---	Vdc
V _{GS(th)}	Gate-Threshold Voltage (V _{DS} =V _{GS} , I _D =250µAdc)	0.35	---	1.0	Vdc
I _{GSS}	Gate-body Leakage (V _{DS} =0Vdc, V _{GS} =±12Vdc)	---	---	± 50	µA
I _{DSS}	Zero Gate Voltage Drain Current (V _{DS} =20Vdc, V _{GS} =0Vdc)	---	---	1	µAdc
V _{SD}	Diode Forward Voltage (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	---	79	120	pF
C _{OSS}	Output Capacitance	---	13	20	
C _{rSS}	Reverse Transfer capacitance	---	9	15	
t _{d(on)}	Turn-on Time	V _{GS} =4.5V, V _{DS} =10V I _D =500mA R _{GEN} =10Ω	---	6.7	ns
t _{d(off)}	Turn-off Time		---	17.3	
t _r	Rise Time		---	4.8	
t _f	Fall Time		---	7.4	

N-Channel MOSFET

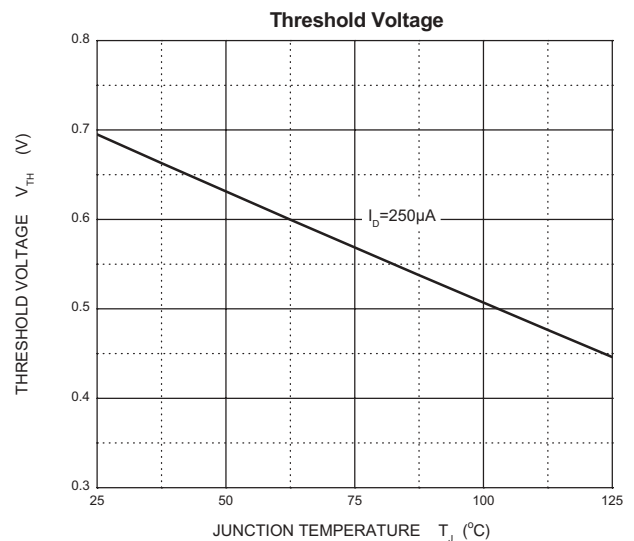
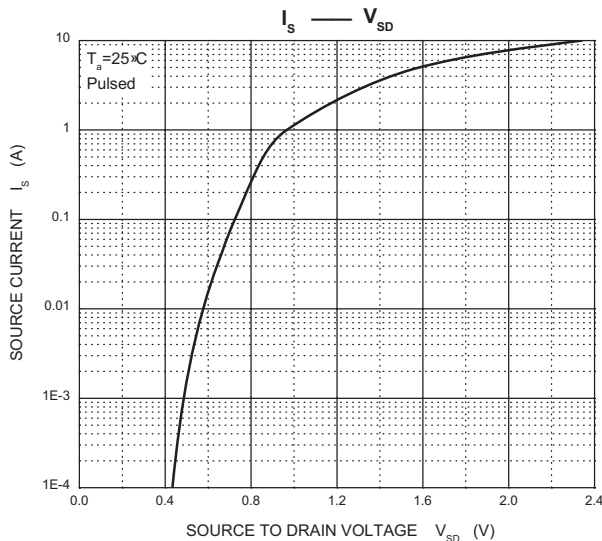
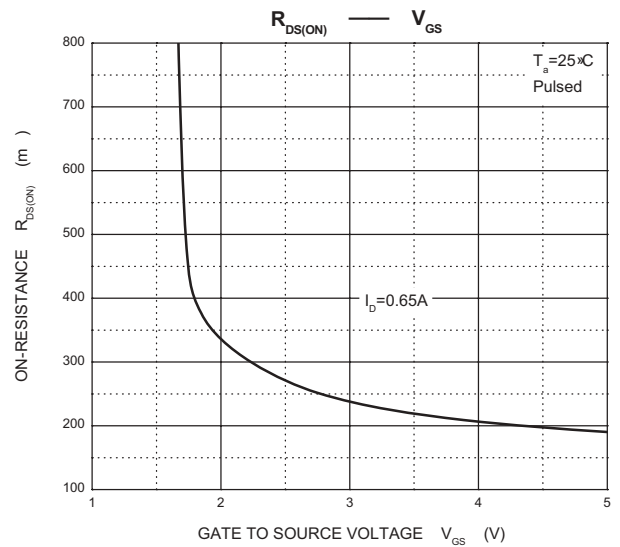
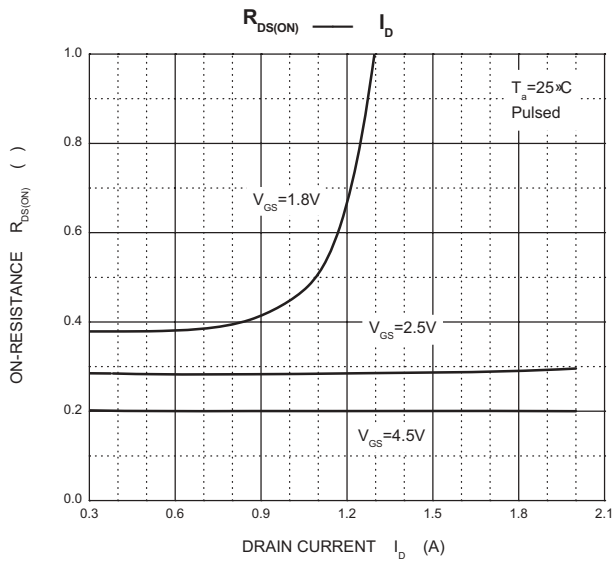
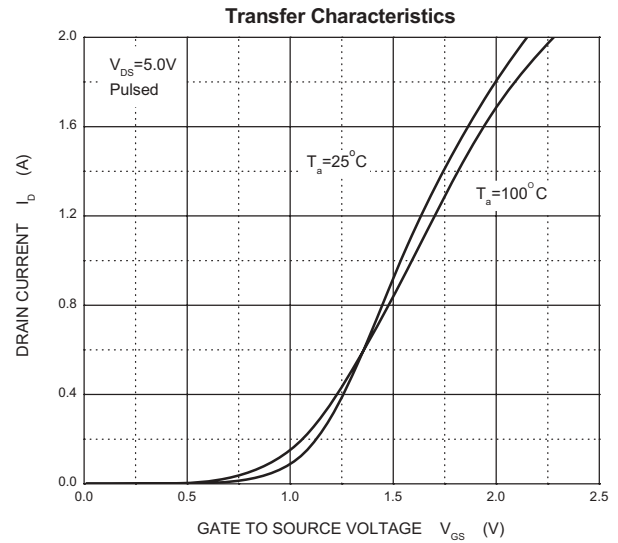
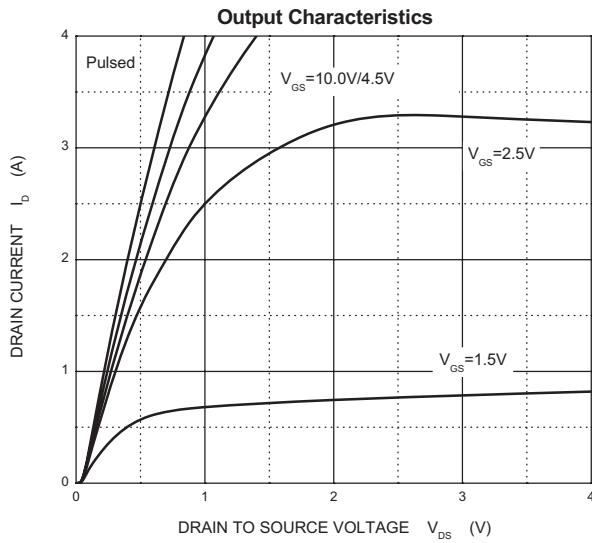
SOT-723



1. GATE
2. SOURCE
3. DRAIN



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.045	.049	1.15	1.25	
B	.045	.049	1.15	1.25	
C	.030	.033	0.75	0.85	
D	.011	.015	0.27	0.37	
E	0.031TYP.		0.80TYP.		
F	.007	.011	0.17	0.27	
G	.017	.020	0.43	0.50	
H	.003	.006	0.08	0.15	
J	.000	.002	0.00	0.05	





Micro Commercial Components

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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