



Micro Commercial Components



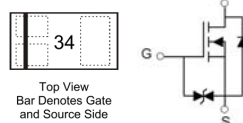
Micro Commercial Components
130 W Cochran St, Unit B
Simi Valley, CA 93065
Tel:818-701-4933

SI3134KL3

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 :34

Equivalent Circuit



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 ⁽¹⁾	0.75	A
I_{DM}	Pulsed Drain Current	1.8	A
P_D	Power Dissipation ⁽²⁾	100	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	1250	°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

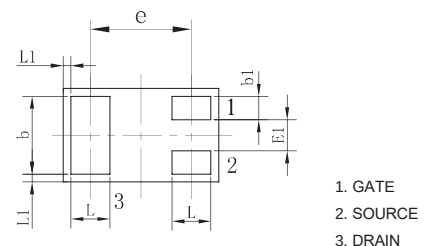
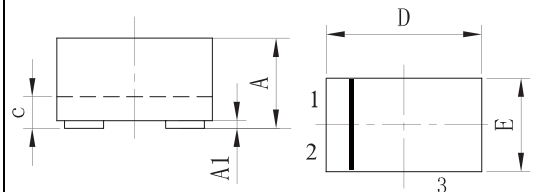
Symbol	Parameter	Min	Typ	Max	Units	
STATIC PARAMETERS						
V _{(BR)DSS}	Drain-Source Breakdown Voltage (V _{GS} =0Vdc, I _D =250μAdc)	20	---	---	Vdc	
V _{GS(th)}	Gate-Threshold Voltage (V _{DS} =V _{GS} , I _D =250μAdc)	0.35	0.75	1.1	Vdc	
I _{GSS}	Gate-body Leakage (V _{DS} =0Vdc, V _{GS} =±10Vdc)	---	---	±20	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 =0.15Adc) (V _{GS} =2.5Vdc, I _D =0.15Adc) (V _{GS} =1.8Vdc, I _D =0.15Adc)	---	0.25 0.30 0.37	0.50 0.70 0.90	Ω	
g _{FS}	Forward transconductance (V _{DS} =10Vdc, I _D =0.15Adc)	150	---	---	mS	
DYNAMIC PARAMETERS ⁽⁴⁾						
C _{iss}	Input Capacitance	V _{DS} =16Vdc, V _{GS} =0Vdc f=1MHz	---	79	120	pF
C _{OSS}	Output Capacitance		---	13	20	
C _{rSS}	Reverse Transfer capacitance		---	9	15	
SWITCHING PARAMETERS ⁽⁴⁾						
t _{d(on)}	Turn-on Time ⁽³⁾	V _{GS} =4.5V, V _{DS} =10V, I _D =500mA R _{GEN} =10Ω	---	6.7	---	ns
t _{d(off)}	Turn-off Time ⁽³⁾		---	17.3	---	
t _r	Rise Time ⁽³⁾		---	4.8	---	
t _f	Fall Time ⁽³⁾		---	7.4	---	

Notes :

- 1.Surface mounted on FR4 board using the minimum recommended pad size.
- 2.Pulse est : Pulse width=300 μs , duty cycles $\leq 2\%$.
3. Switching characteristics are independent of operating junction temperatures.
4. Graranted y design, not subject to producing.

N-Channel MOSFET

DFN1006-3

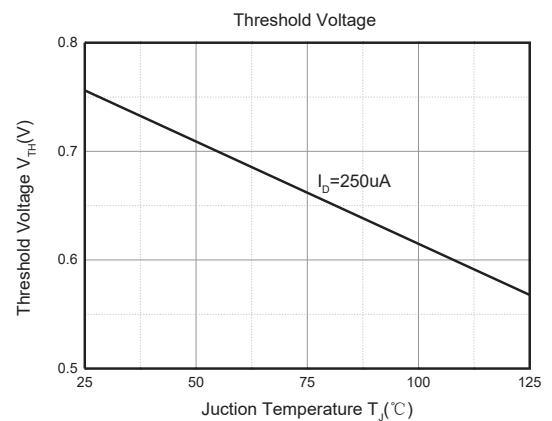
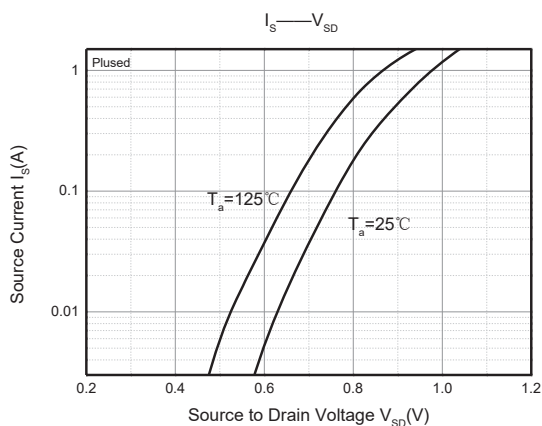
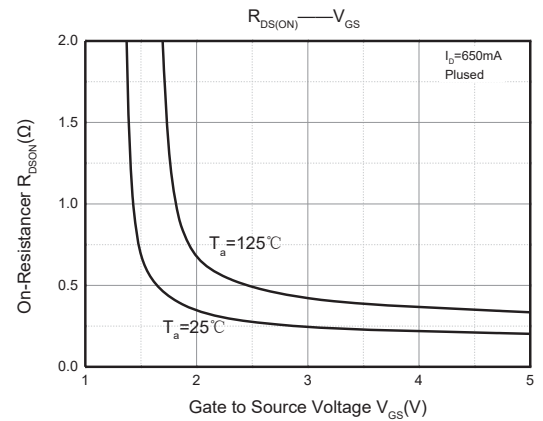
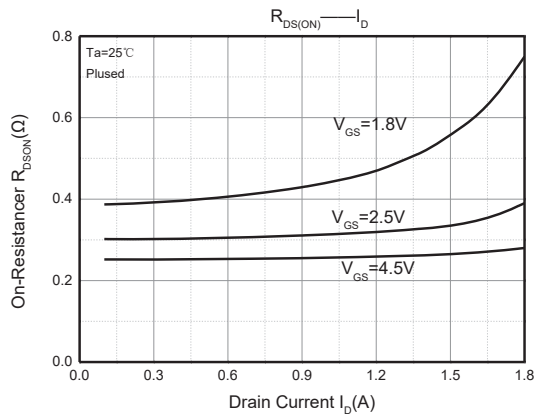
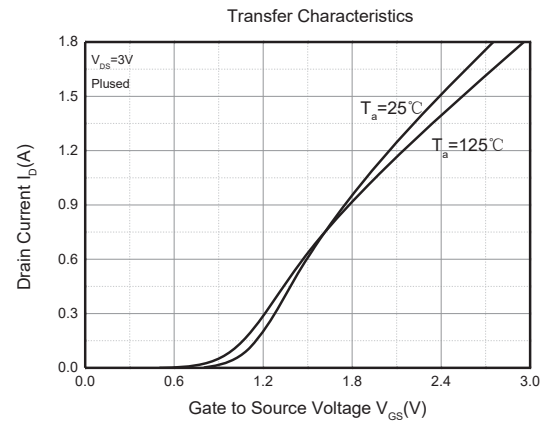
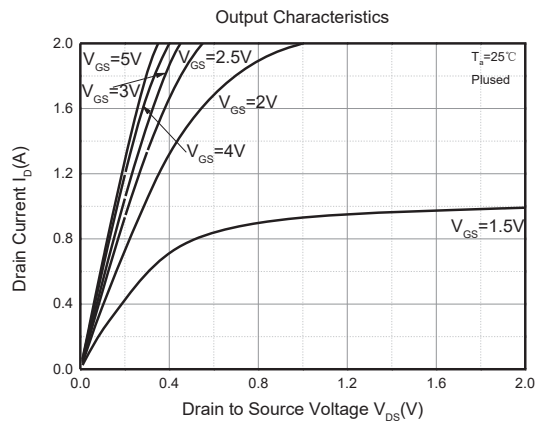


1. GATE
2. SOURCE
3. DRAIN

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
A1	0.000	0.002	0.00	0.05	
b	0.018	0.022	0.45	0.55	
b1	0.004	0.008	0.10	0.20	
c	0.005	0.007	0.12	0.18	
D	0.037	0.042	0.95	1.075	
E	0.022	0.027	0.55	0.675	
E1	0.006	0.010	0.15	0.25	
e	0.026 BSC		0.65BSC		
L	0.008	0.012	0.20	0.30	
L1	0.0002 REF		0.05 REF		

SI3134KL3

Typical Characteristics



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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

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