

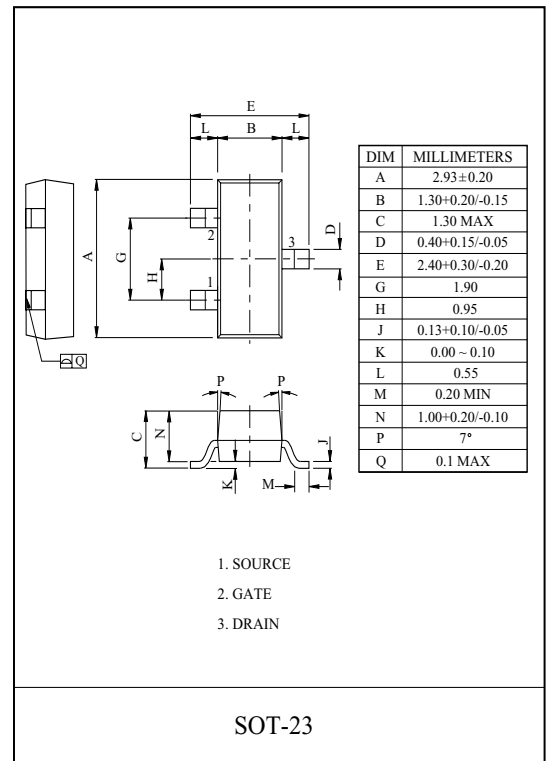
ULTRA-HIGH SPEED SWITCHING APPLICATIONS
ANALOG SWITCH APPLICATIONS

FEATURES

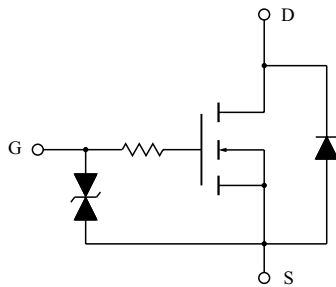
- High Speed.
- Small Package.
- Enhancement-Mode.

MAXIMUM RATINGS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GSS}	± 20	V
DC Drain Current	I_D	100	mA
Drain Power Dissipation	P_D	200	mW
Channel Temperature	T_{ch}	150	
Storage Temperature Range	T_{stg}	-55 ~ 150	

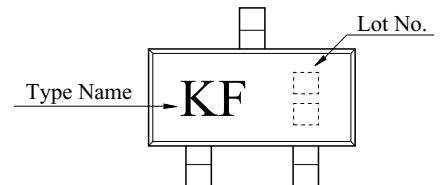


EQUIVALENT CIRCUIT



THIS TRANSISTOR IS ELECTROSTATIC SENSITIVE DEVICE.
PLEASE HANDLE WITH CAUTION.

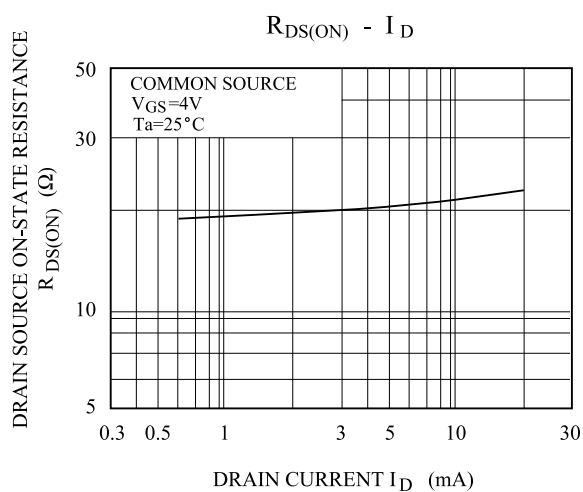
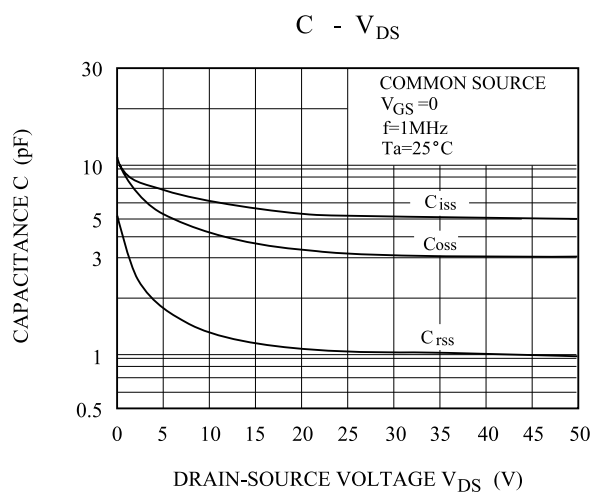
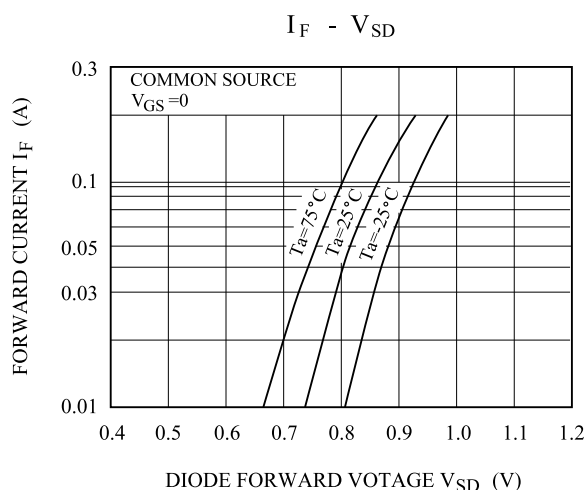
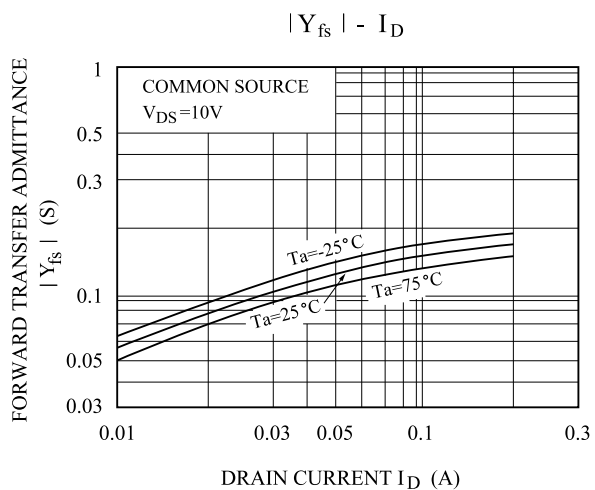
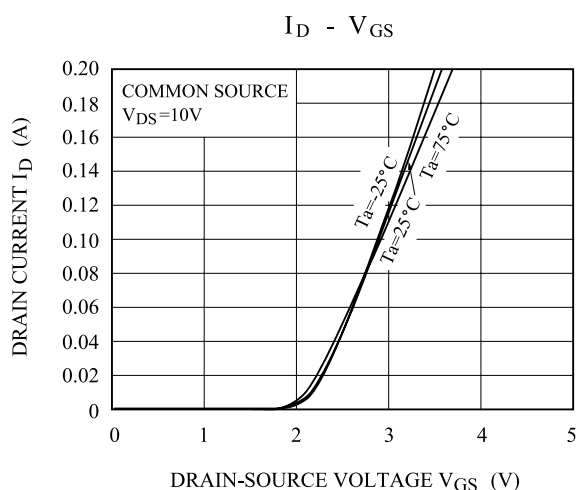
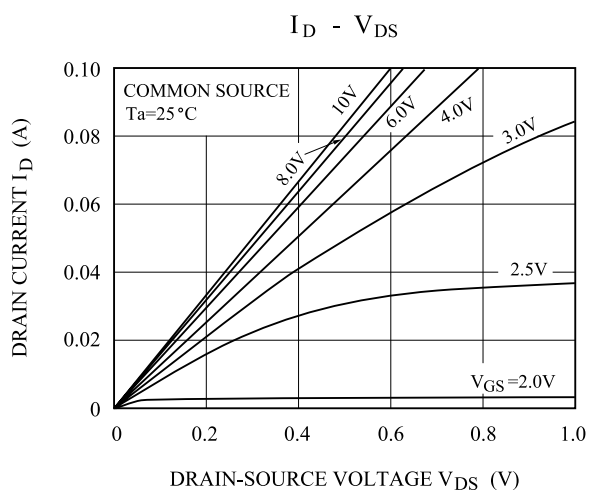
Marking



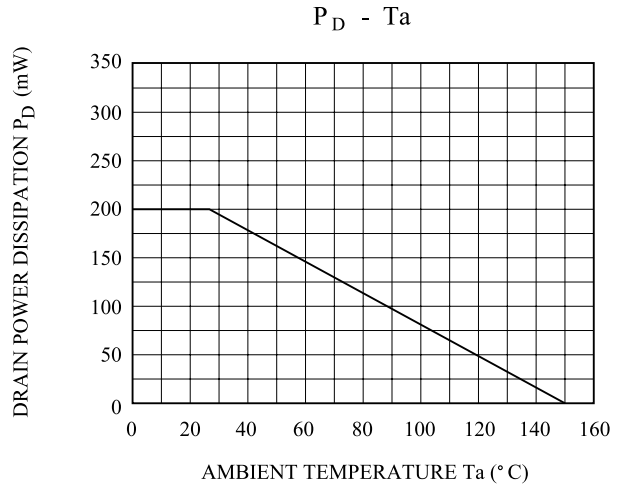
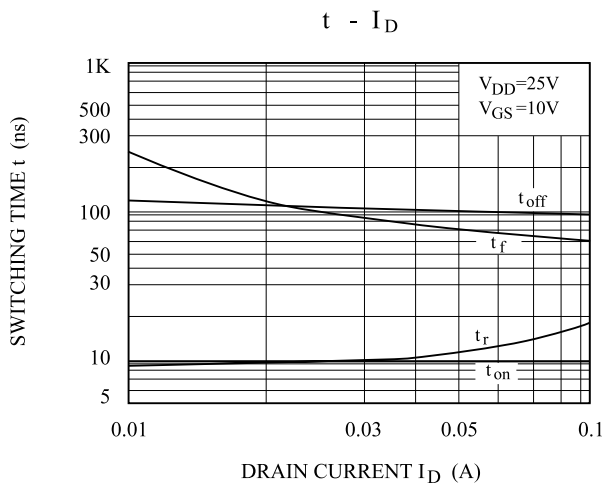
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Gate Leakage Current	I_{GSS}	$V_{GS} = \pm 16V, V_{DS} = 0V$	-	-	± 1	μA
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	$I_D = 100 \mu A, V_{GS} = 0V$	60	-	-	V
Drain Cut-off Current	I_{DSS}	$V_{DS} = 60V, V_{GS} = 0V$	-	-	1	μA
Gate Threshold Voltage	V_{th}	$V_{DS} = 10V, I_D = 0.1mA$	1	-	2.4	V
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS} = 10V, I_D = 50mA$	100	-	-	mS
Drain-Source ON Resistance	$R_{DS(ON)}$	$I_D = 50mA, V_{GS} = 10V$	-	3	7.5	
Input Capacitance	C_{iss}	$V_{DS} = 10V, V_{GS} = 0V, f = 1MHz$	-	6.2	-	pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS} = 10V, V_{GS} = 0V, f = 1MHz$	-	1.5	-	pF
Output Capacitance	C_{oss}	$V_{DS} = 10V, V_{GS} = 0V, f = 1MHz$	-	4.4	-	pF
Switching Time	Turn-on Time	t_{on}	-	0.021	-	μs
	Turn-off Time	t_{off}	-	0.18	-	μs

KTK5162S



KTK5162S



SWITCHING TIME TEST CIRCUIT

