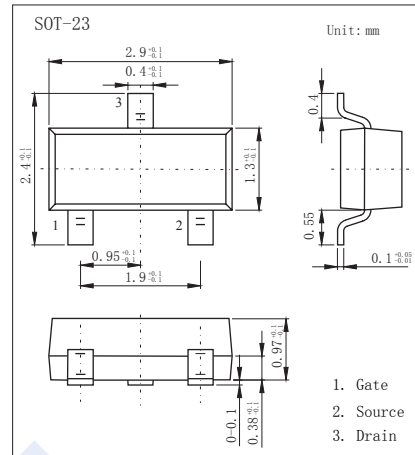
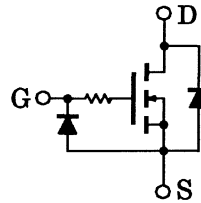


## N-Channel MOSFET

### 2SK1828

#### ■ Features

- $V_{DS} (V) = 20V$
- $I_D = 50mA$
- $R_{DS(ON)} < 40 \Omega$  ( $V_{GS} = 2.5V$ )
- Low threshold voltage:  $V_{th} = 0.5 \sim 1.5 V$



#### ■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DS}$	20	V
Gate-Source Voltage	$V_{GS}$	$\pm 10$	
Continuous Drain Current	$I_D$	50	mA
Power Dissipation	$P_D$	200	mW
Junction Temperature	$T_J$	150	$^\circ C$
Storage Temperature Range	$T_{stg}$	-55 to 150	

#### ■ Electrical Characteristics $T_a = 25^\circ C$

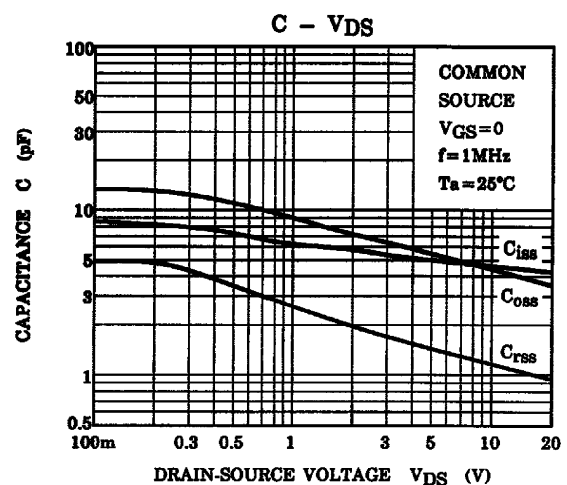
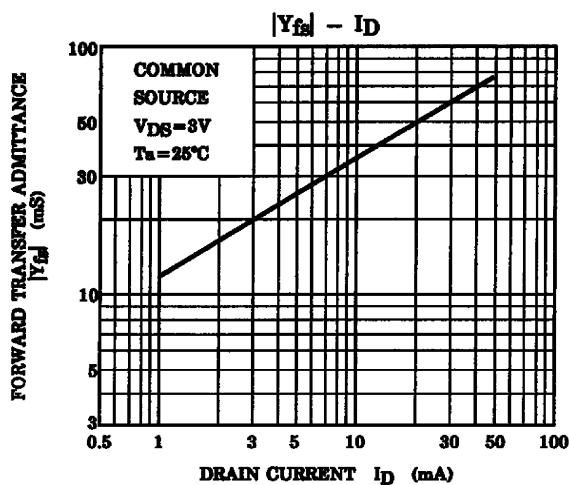
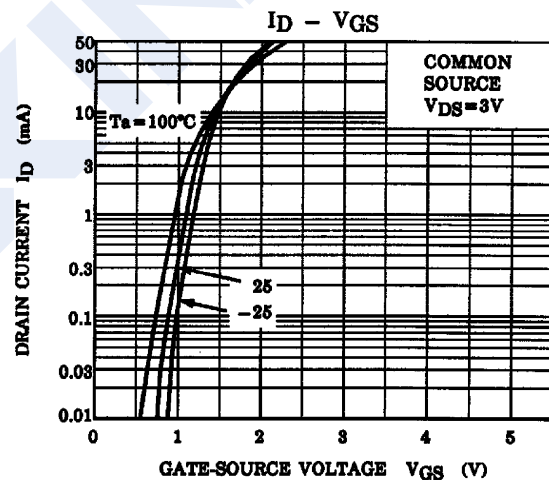
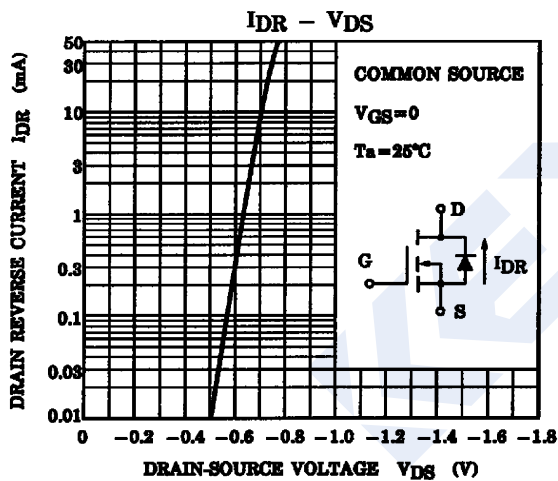
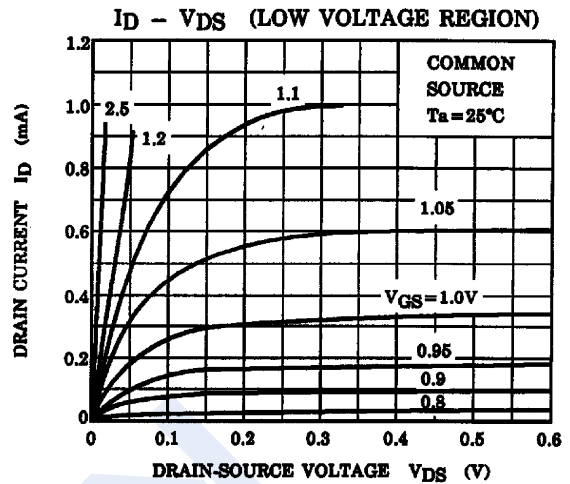
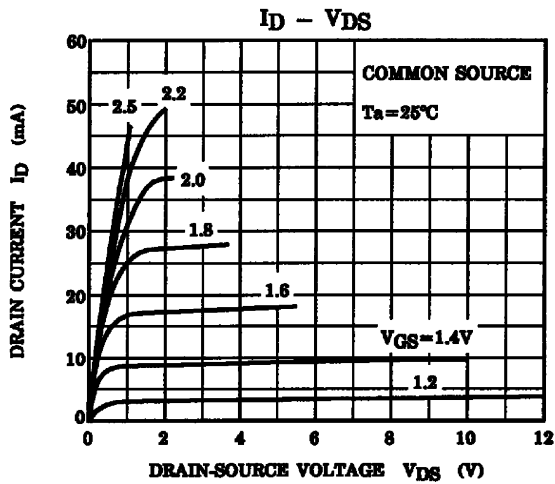
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	$V_{DSS}$	$I_D = 250 \mu A, V_{GS} = 0V$	20			V
Zero Gate Voltage Drain Current	$I_{DSS}$	$V_{DS} = 20V, V_{GS} = 0V$			1	$\mu A$
Gate-Body Leakage Current	$I_{GSS}$	$V_{DS} = 0V, V_{GS} = \pm 10V$			$\pm 1$	$\mu A$
Gate threshold voltage	$V_{GS(th)}$	$V_{DS} = 3V, I_D = 100 \mu A$	0.5		1.5	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	$V_{GS} = 2.5V, I_D = 10mA$			40	$\Omega$
Forward Transconductance	$g_{FS}$	$V_{DS} = 3V, I_D = 10mA$	20			ms
Input Capacitance	$C_{iss}$	$V_{GS} = 0V, V_{DS} = 3V, f = 1MHz$		5.5		pF
Output Capacitance	$C_{oss}$				6.5	
Reverse Transfer Capacitance	$C_{rss}$				1.6	
Turn-On DelayTime	$t_{d(on)}$	$V_{GS} = 0 \sim 2.5V, V_{DS} = 3V, I_D = 10mA$		140		ns
Turn-Off DelayTime	$t_{d(off)}$			140		

#### ■ Marking

Marking	Value
KI	KI

## N-Channel MOSFET 2SK1828

■ Typical Characteristics



## N-Channel MOSFET 2SK1828

■ Typical Characteristics

