

2SJ146

Silicon P-Channel MOS

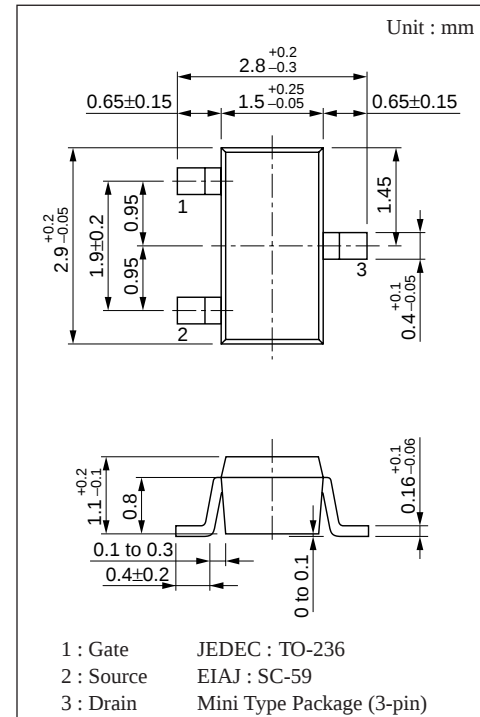
For switching

■ Features

- High-speed switching
- Downsizing of sets by mini-type package and automatic insertion by taping/magazine packing are available.

■ Absolute Maximum Ratings (Ta = 25°C)

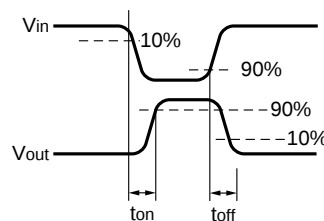
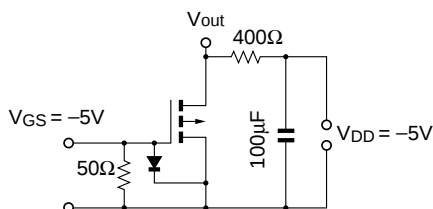
Parameter	Symbol	Rating	Unit
Drain-Source breakdown voltage	V_{DSS}	- 50	V
Gate-Source voltage	V_{GSO}	- 8	V
Drain current	I_D	-100	mA
Max drain current	I_{DP}	- 200	mA
Allowable power dissipation	P_D	150	mW
Channel temperature	T_{ch}	150	°C
Storage temperature	T_{stg}	- 55 to +150	°C



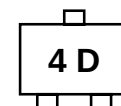
■ Electrical Characteristics (Ta = 25°C)

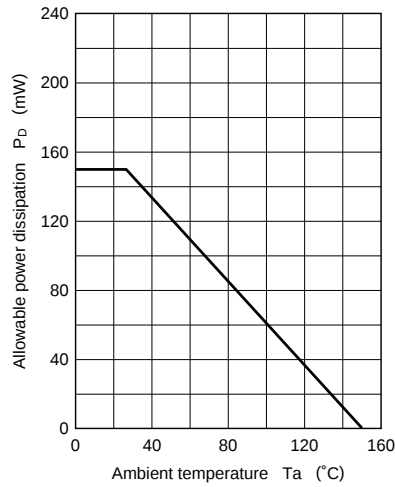
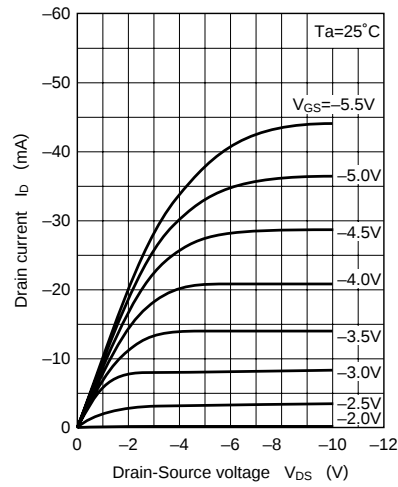
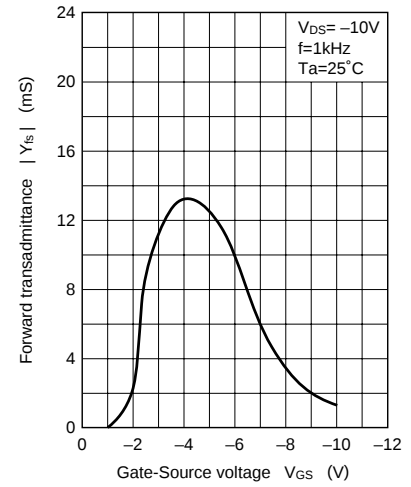
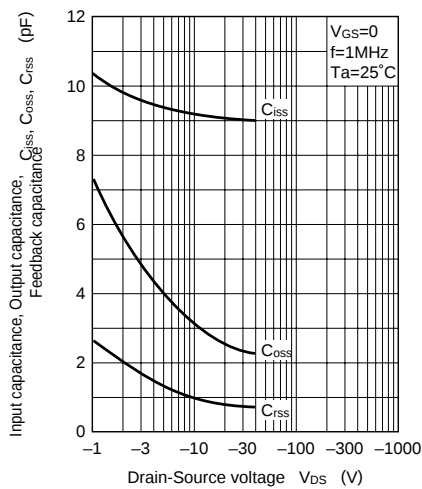
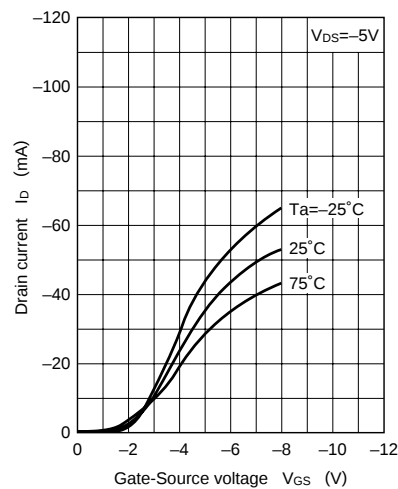
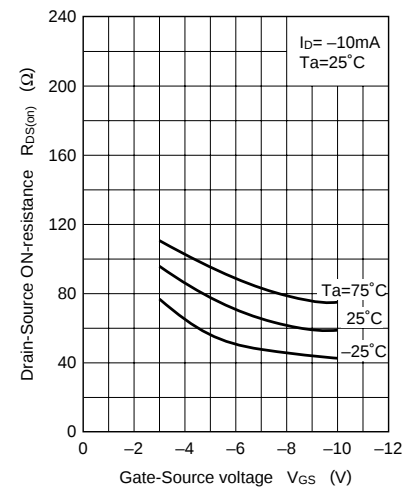
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Drain-Source cut-off current	I_{DSS}	$V_{DS} = -30V, V_{GS} = 0$			-10	μA
Gate-Source leakage current	I_{GSS}	$V_{GS} = -8V, V_{DS} = 0$			-1	μA
Drain-Source breakdown voltage	V_{DSS}	$I_D = -100\mu A, V_{GS} = 0$	- 50			V
Gate threshold voltage	V_{th}	$V_{DS} = -5V, I_D = -100\mu A$	-1.5		- 3.5	V
Forward transadmittance	$ Y_{fs} $	$V_{DS} = -10V, I_D = 10mA, f = 1kHz$	8			mS
Drain-Source ON-resistance	$R_{DS(on)}$	$V_{GS} = -5V, I_D = -10mA$			150	Ω
Input capacitance	C_{iss}	$V_{DS} = -5V, V_{GS} = 0, f = 1MHz$			13	pF
Output capacitance	C_{oss}				7	pF
Feedback capacitance	C_{rss}				3	pF
Turn-on time	t_{on}^*	$V_{DD} = -5V, V_{GS} = 0 \text{ to } -5V, R_L = 400\Omega$			40	ns
Turn-off time	t_{off}^*	$V_{DD} = -5V, V_{GS} = -5V \text{ to } 0V, R_L = 400\Omega$			60	ns

* t_{on} , t_{off} measurement circuit



■ Marking



$P_D - T_a$  $I_{DS} - V_{DS}$  $|Y_{fs}| - V_{GS}$  $C_{iss}, C_{oss}, C_{rss} - V_{DS}$  $I_D - V_{GS}$  $R_{DS(on)} - V_{GS}$  $V_{IN} - I_O$ 