Ordering number : ENN5075

ON Semiconductor®

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DATA SHEET

N-Channel Junction Silicon FET

2SK2539 — High-Frequency Amplifier, Analog Switch Applications

Features

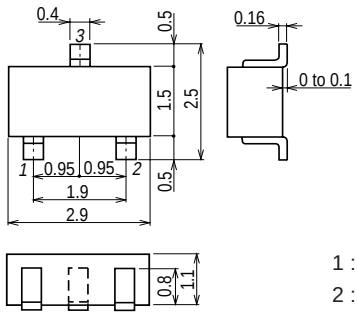
- Large | y_{fs} |.
- Small Ciss.
- Small-sized package permitting 2SK2539-applied sets to be made small and slim.
- Adoption of FBET process.

Package Dimensions

unit:mm

2050A

[2SK2539]



1 : Source
2 : Drain
3 : Gate
SANYO : CP

Specifications

Absolute Maximum Ratings at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	V_{DSX}		15	V
Gate-to-Drain Voltage	V_{GDS}		–15	V
Gate Current	I_G		5	mA
Drain Current	I_D		50	mA
Allowable Power Dissipation	P_D		200	mW
Junction Temperature	Tj		150	˚C
Storage Temperature	Tstg		–55 to +150	˚C

Electrical Characteristics at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Gate-to-Drain Breakdown Voltage	$V_{(BR)GDS}$	I_G=–10μA, V_{DS}=0	–15			V
Gate-to-Source Leakage Current	I_{GSS}	V_{GS}=–10V, V_{DS}=0			–1.0	nA
Zero-Gate Voltage Drain Current	I_{DSS}	V_{DS}=5V, V_{GS}=0	10.0*		50.0*	mA
Cutoff Voltage	$V_{GS(off)}$	V_{DS}=5V, I_D=10μA	–0.6	–1.4	–3.0	V
Forward Transfer Admittance	| yfs |1	V_{DS}=5V, I_D=10mA, f=1kHz	14	21		mS
	| yfs |2	V_{DS}=5V, V_{GS}=0, f=1kHz	14	29		mS

* : The 2SK2539 is classified by I_{DSS} as follows : (unit : mA)

10.0 6 20.0	16.0 7 32.0	25.0 8 50.0

Marking : AK
I_{DSS} rank : 6, 7, 8

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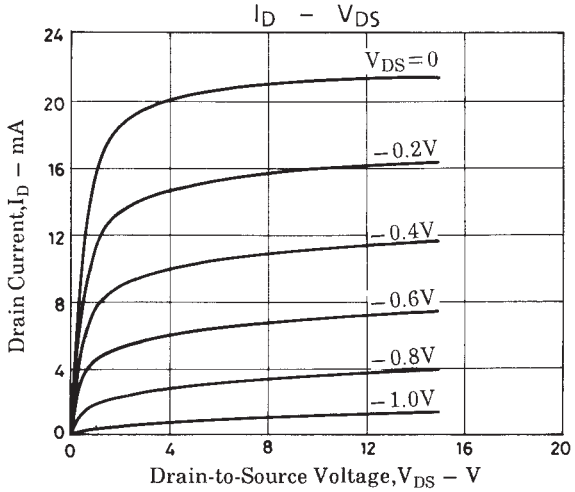
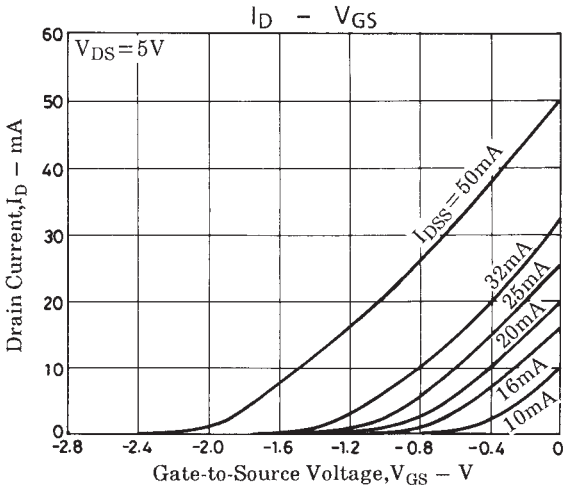
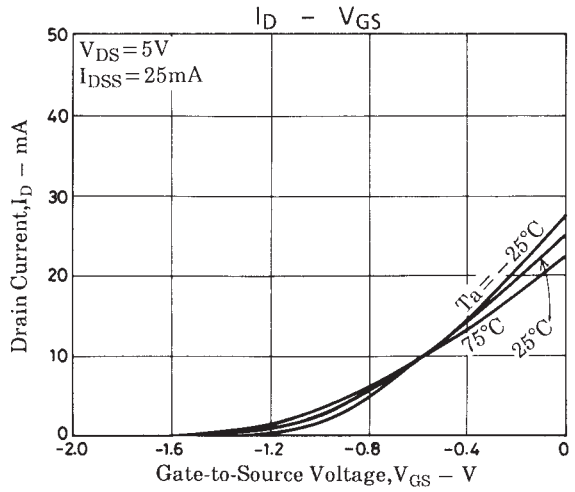
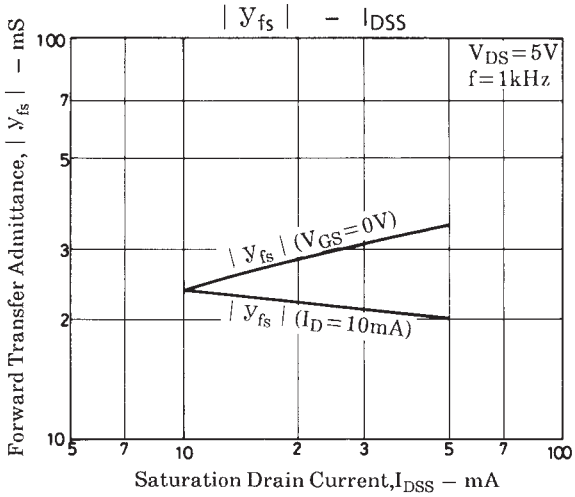
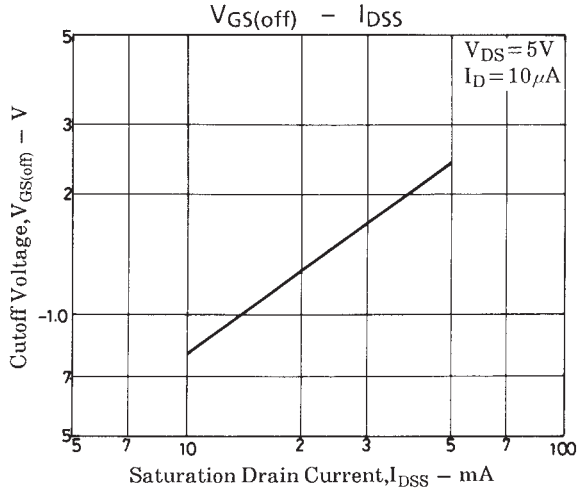
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input Capacitance	Ciss	V_{DS}=5V, V_{GS}=0, f=1MHz		4.9		pF
Reverse Transfer Capacitance	Crss	V_{DS}=5V, V_{GS}=0, f=1MHz		1.4		pF

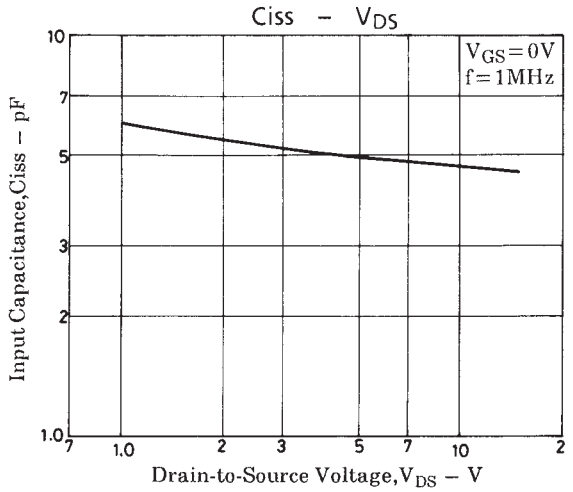


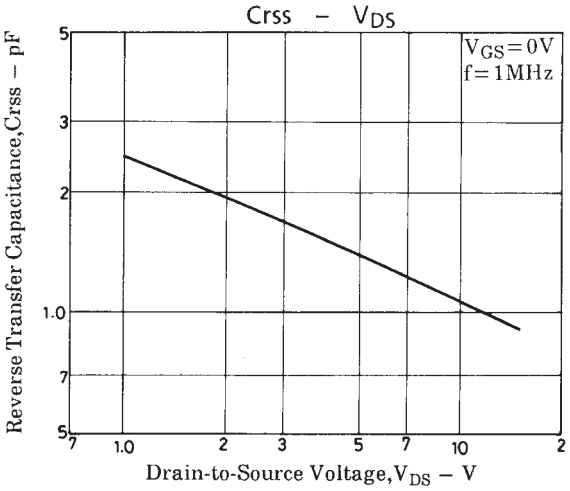


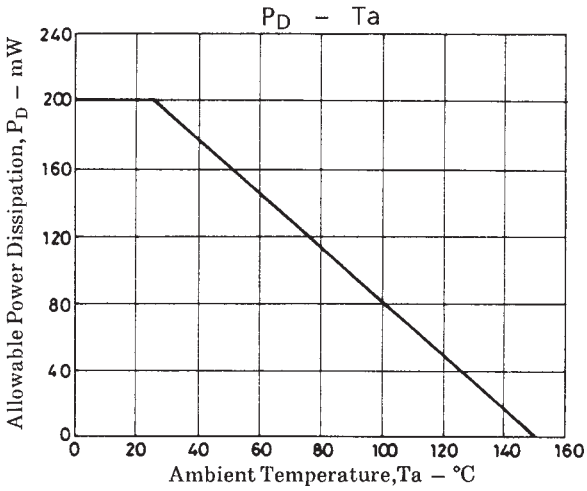












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