

2SK931



2050

N-Channel Junction

High-Frequency Low-Noise Amp Applications

©2840

Features

- Adoption of FBET process
- Large $|y_{fs}|$
- Small c_{iss}
- Very low noise figure
- Very small-sized package permitting 2SK931-applied sets to be made smaller and slimmer

Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

			unit
Drain to Source Voltage	V_{DSX}	30	V
Gate to Drain Voltage	V_{GDS}	-30	V
Gate Current	I_G	10	mA
Drain Current	I_D	50	mA
Allowable Power Dissipation	P_D	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

		min	typ	max	unit
Gate to Drain Breakdown Voltage	$V_{(BR)GDS}$	-30			V
Gate Cutoff Current	I_{GSS}			-1.0	nA
Cutoff Voltage	$V_{GS(off)}$	-0.3	-0.8	-2.0	V
Drain Current	I_{DSS}	*5.0		*30.0	mA
Forward Transfer Admittance	$ y_{fs} $	15	30		mS
Input Capacitance	c_{iss}		7.0		pF
Reverse Transfer Capacitance	c_{rss}		2.0		pF
Noise Figure	NF		1.5		dB

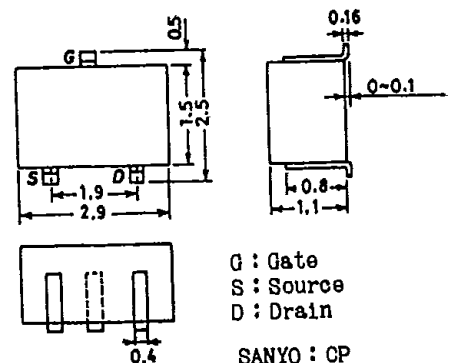
※ : The 2SK931 is classified by I_{DSS} as follows (unit : mA) :

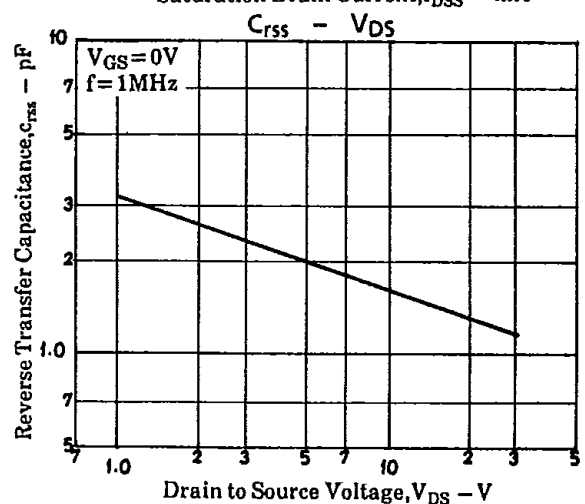
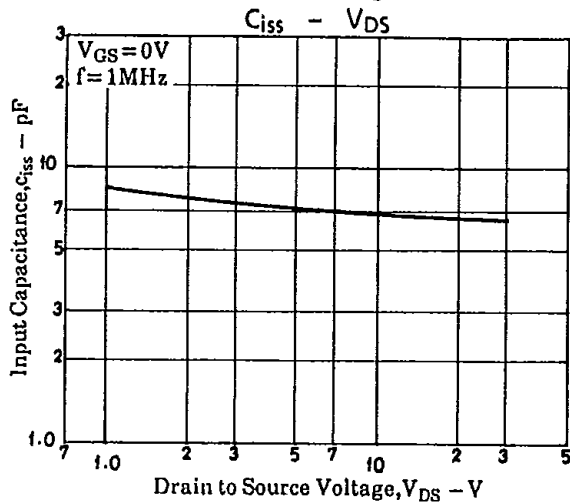
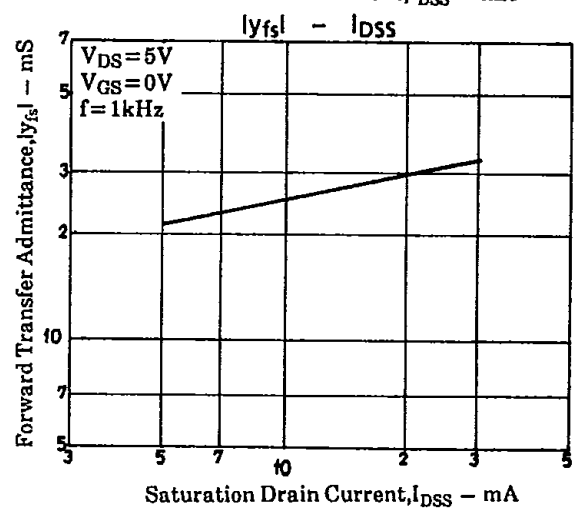
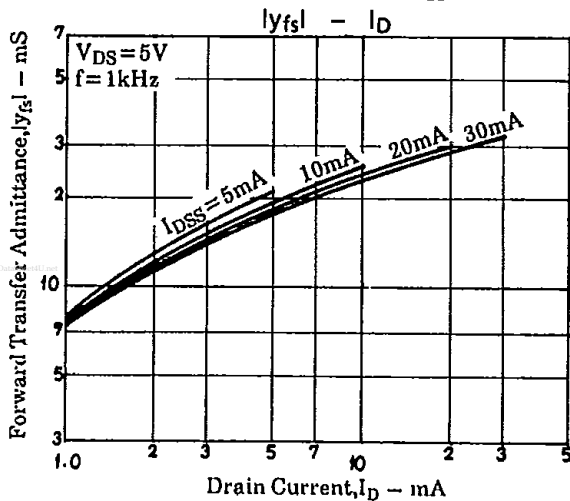
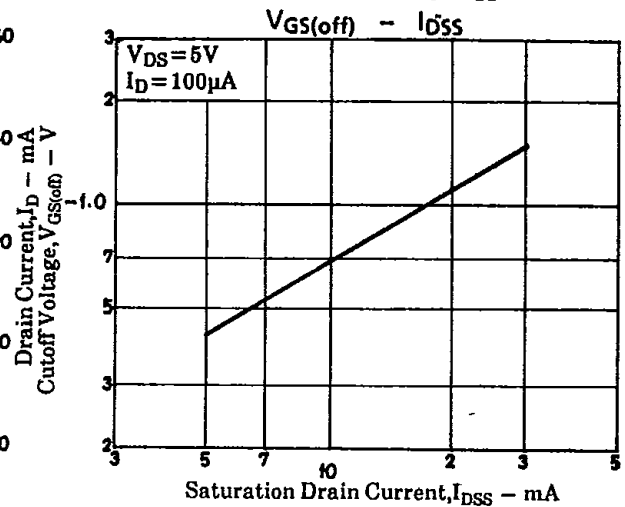
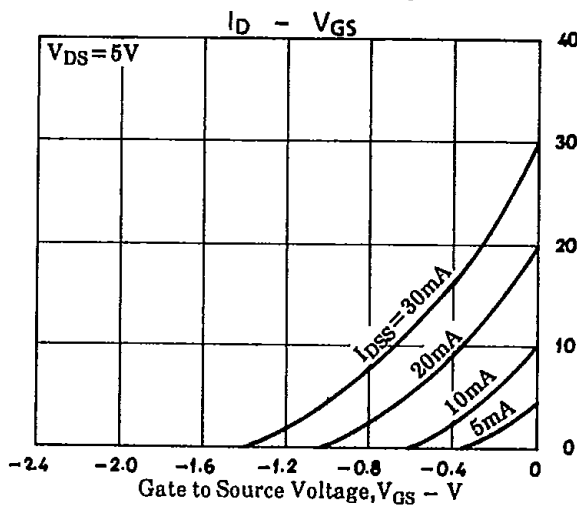
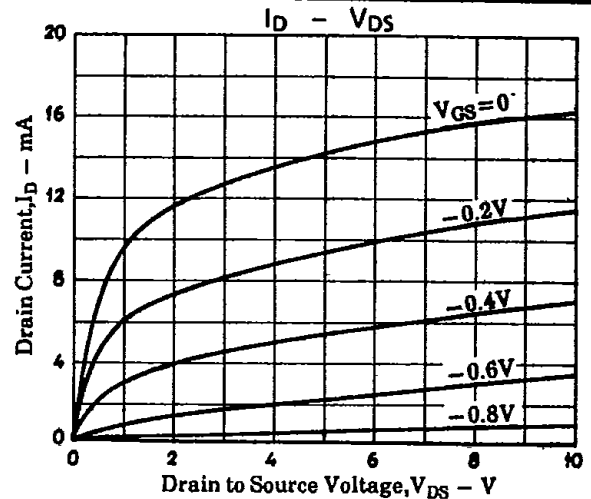
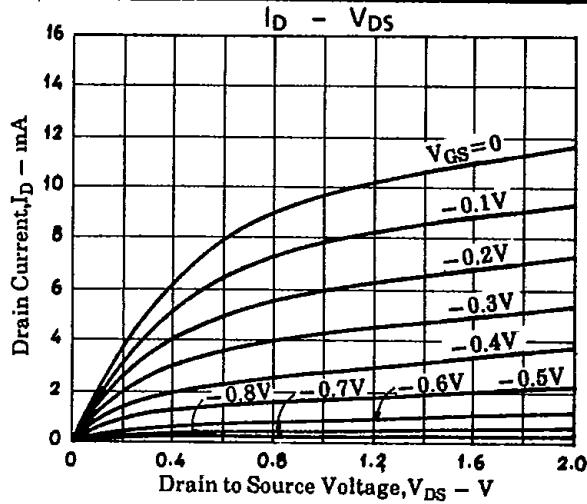
5.0	21	8.5	7.3	22	12.0	10.0	23	17.0	14.5	24	24.0	18.0	25	30.0
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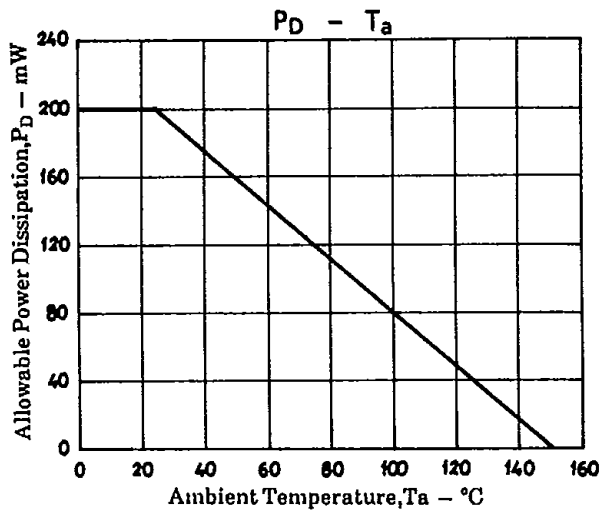
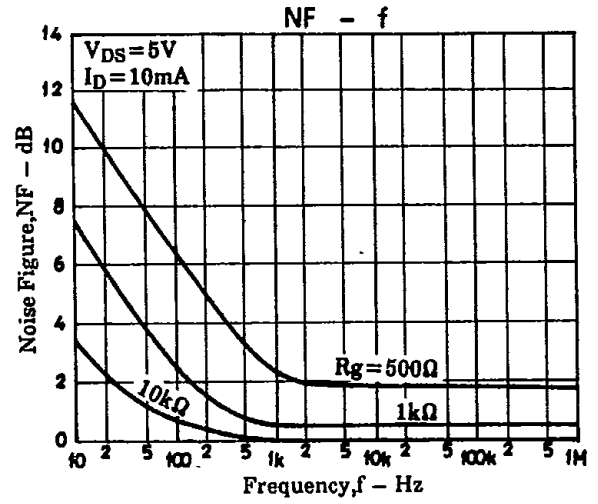
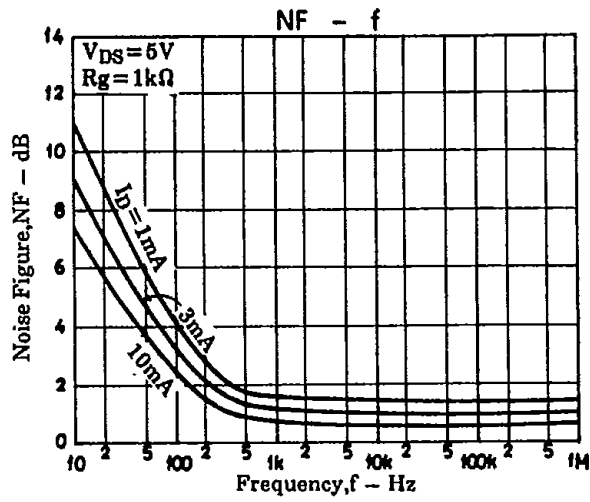
(Note) Marking : D

 I_{DSS} rank : 21,22,23,24,25

Case Outline 2050 (unit : mm)



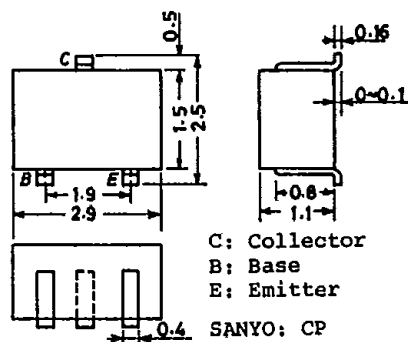




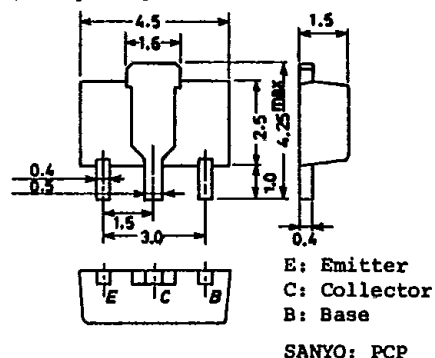
CASE OUTLINES OF SURFACE MOUNT TRANSISTORS

- All of Sanyo surface mount transistor case outlines are illustrated below.
- All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
- No marking is indicated.

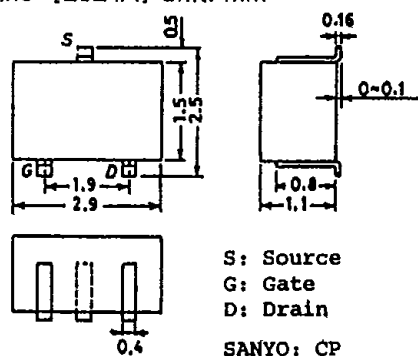
Case Outline—[2018A] unit: mm



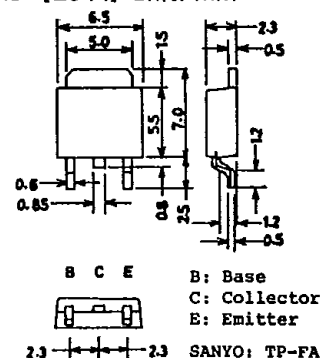
Case Outline—[2038] unit: mm



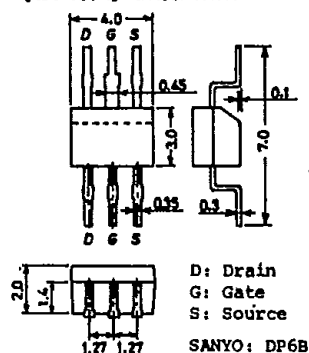
Case Outline—[2024A] unit: mm



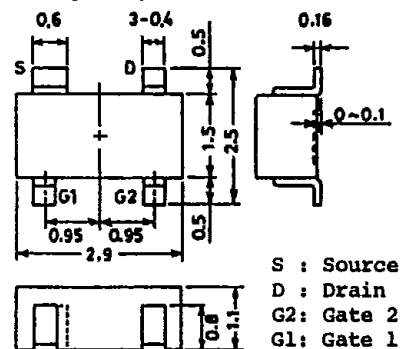
Case Outline—[2044] unit: mm



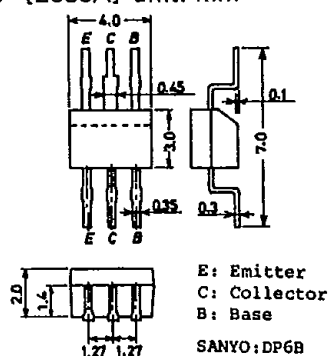
Case Outline—[2028A] unit: mm



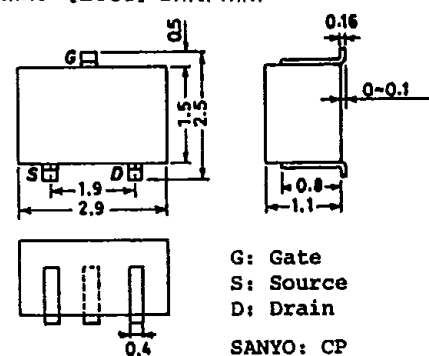
Case Outline—[2046] unit: mm



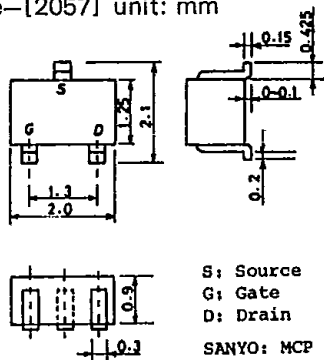
Case Outline—[2030A] unit: mm



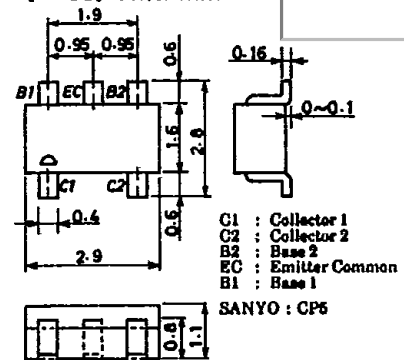
Case Outline—[2050] unit: mm



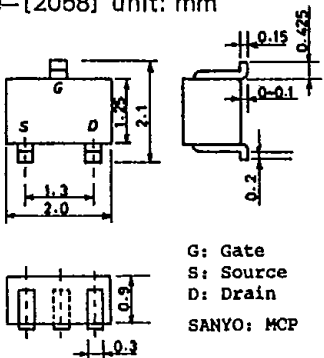
Case Outline—[2057] unit: mm



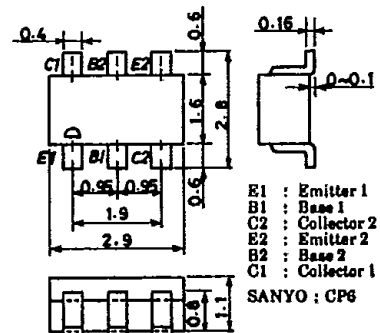
Case Outline—[2066] unit: mm



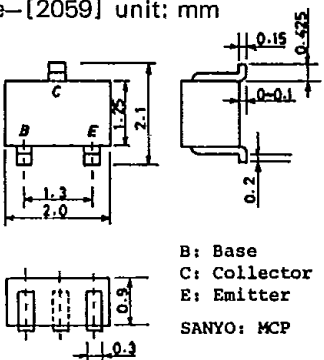
Case Outline—[2058] unit: mm



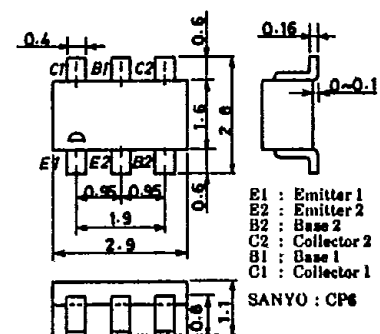
Case Outline—[2067] unit: mm



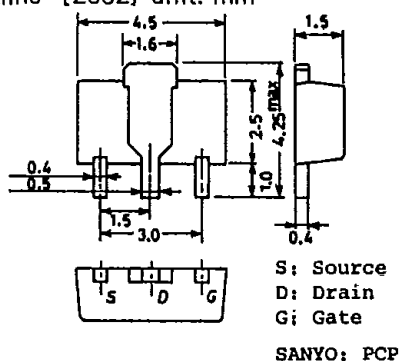
Case Outline—[2059] unit: mm



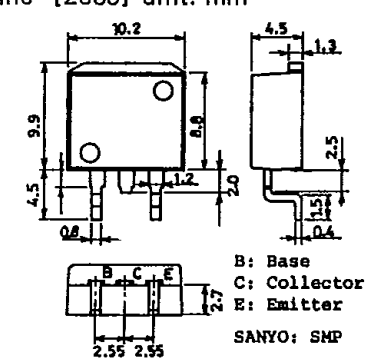
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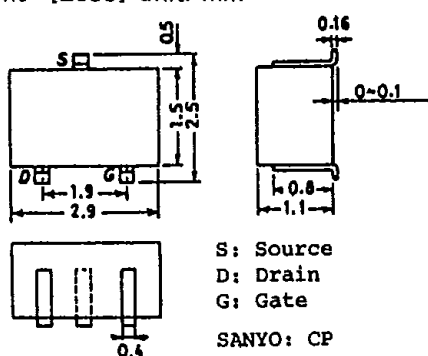
Case Outline—[2062] unit: mm



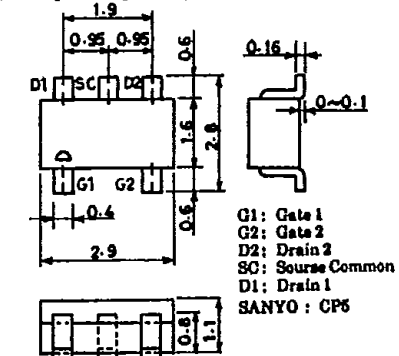
Case Outline—[2069] unit: mm



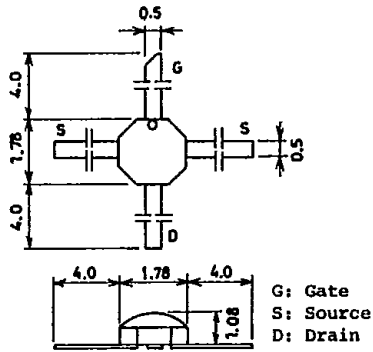
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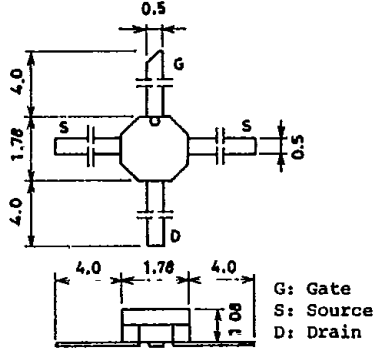
Case Outline—[2070] unit: mm



Case Outline-[2071] unit: mm



Case Outline-[2072] unit: mm



Case Outline-[2073] unit: mm

