

2SK932

T-31-25

2050

N-Channel Junction Silicon FET

**High-Frequency Low-Noise
Amp Applications**

©2841

Applications

- AM tuner RF amp, low-noise amp

Features

- Adoption of FBET process
- Large $|y_{fs}|$
- Small c_{iss}
- Very low noise figure
- Very small-sized package permitting 2SK932-applied sets to be made smaller and slimmer

**Absolute Maximum Ratings at Ta=25°C**

			unit
Drain to Source Voltage	V_{DSX}	15	V
Gate to Drain Voltage	V_{GDS}	-15	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	°C
Storage Temperature	T_{stg}	-55 to +150	°C

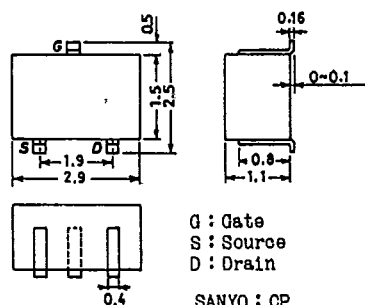
Electrical Characteristics at Ta=25°C

			min	typ	max	unit
Gate to Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_G = -10\mu A, V_{DS} = 0V$	-15			V
Gate Cutoff Current	I_{GSS}	$V_{GS} = -10V, V_{DS} = 0V$			-1.0	nA
Cutoff Voltage	$V_{GS(off)}$	$V_{DS} = 5V, I_D = 100\mu A$	-0.2	-0.6	-1.4	V
Drain Current	I_{DSS}	$V_{DS} = 5V, V_{GS} = 0V$	※5.0		※24.0	mA
Forward Transfer Admittance	$ y_{fs} $	$V_{DS} = 5V, V_{GS} = 0V, f = 1kHz$	25	50		mS
Input Capacitance	c_{iss}	$V_{DS} = 5V, V_{GS} = 0V, f = 1MHz$		10		pF
Reverse Transfer Capacitance	c_{rss}	$V_{DS} = 5V, V_{GS} = 0V, f = 1MHz$		3.0		pF
Noise Figure	NF	$V_{DS} = 5V, R_g = 1k\Omega, I_D = 1mA, f = 1kHz$	1.5			dB

※ : The 2SK932 is classified by I_{DSS} as follows (unit : mA) :

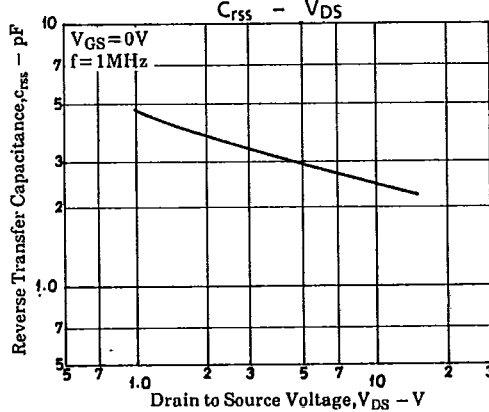
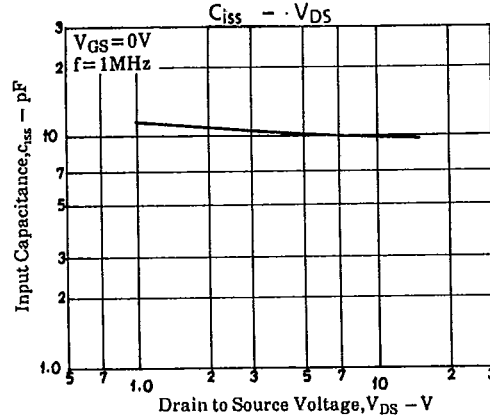
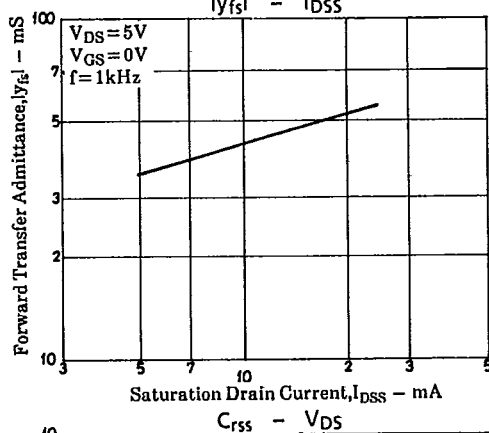
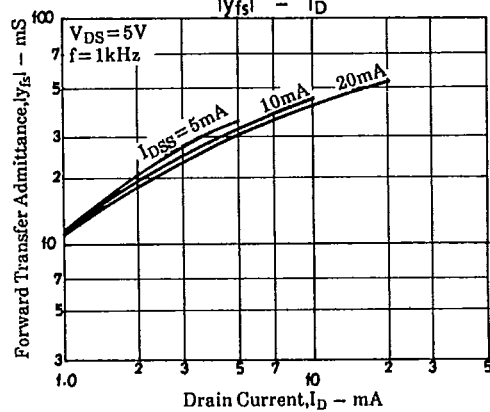
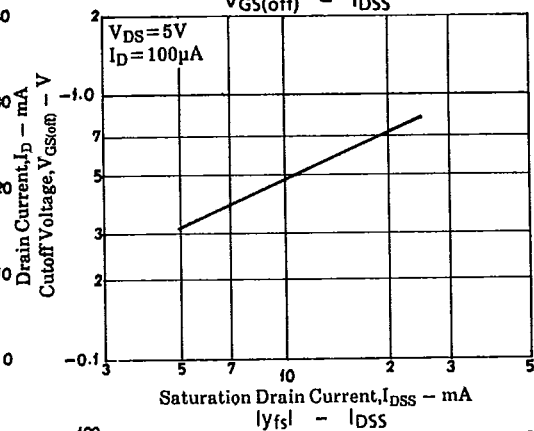
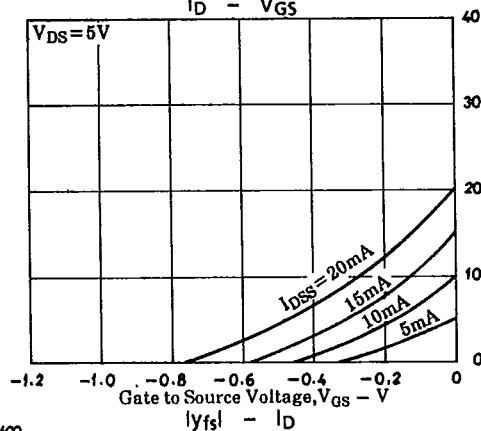
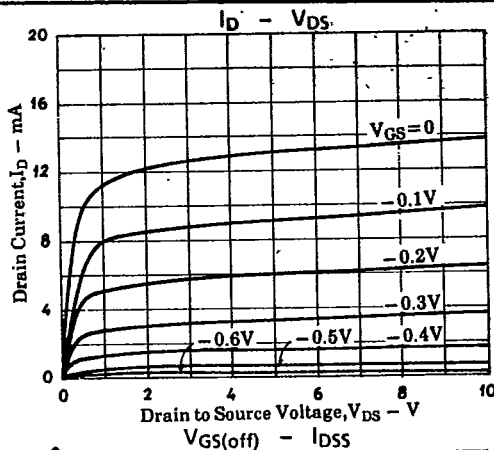
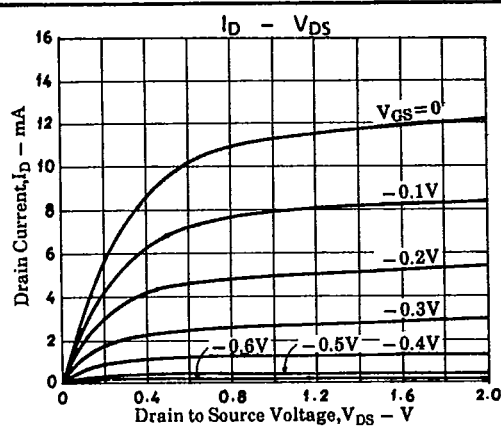
5.0	21	8.5	7.3	22	12.0	10.0	23	17.0	14.5	24	24.0
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(Note) Marking : E
 I_{DSS} rank : 21,22,23,24

**Case Outline 2050
(unit : mm)**

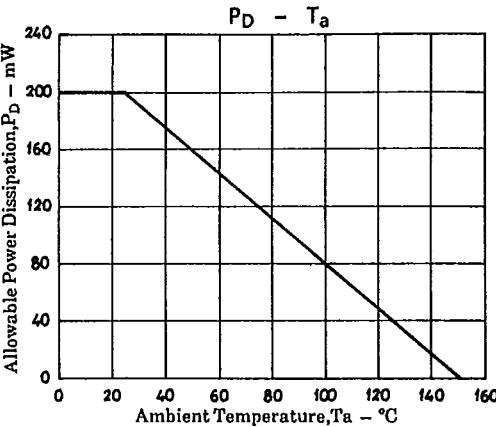
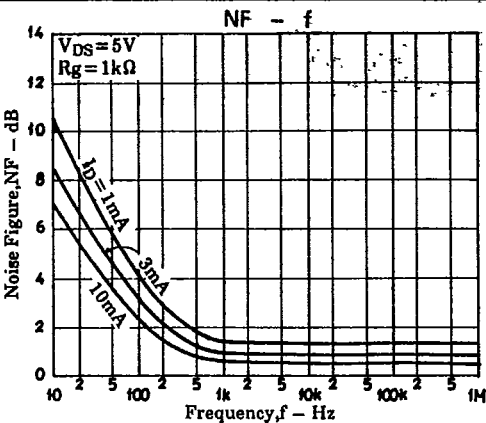
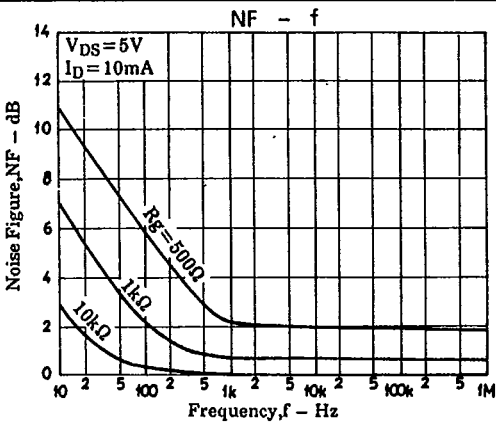
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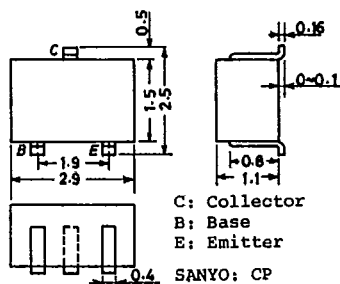


T-91-20

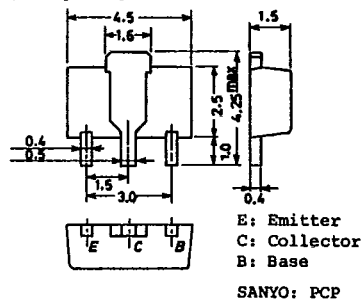
CASE OUTLINES OF SURFACE MOUNT TRANSISTORS

- 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.

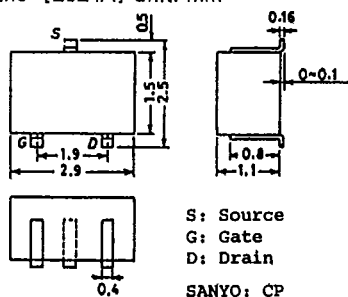
Case Outline—[2018A] unit: mm



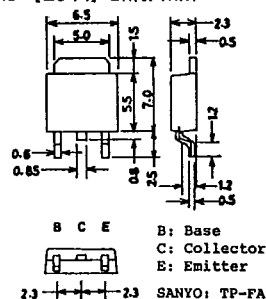
Case Outline—[2038] unit: mm



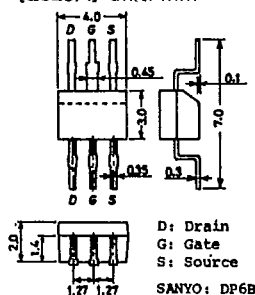
Case Outline—[2024A] unit: mm



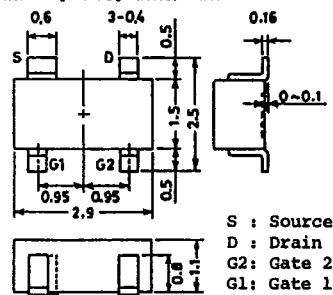
Case Outline—[2044] unit: mm



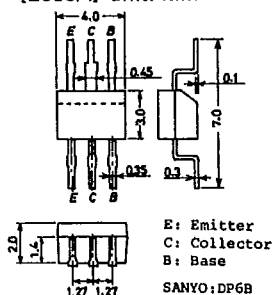
Case Outline—[2028A] unit: mm



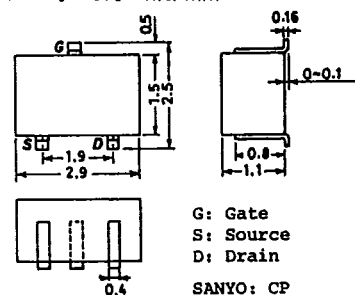
Case Outline—[2046] unit: mm



Case Outline—[2030A] unit: mm

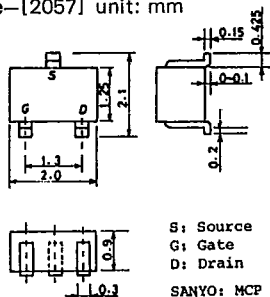


Case Outline—[2050] unit: mm

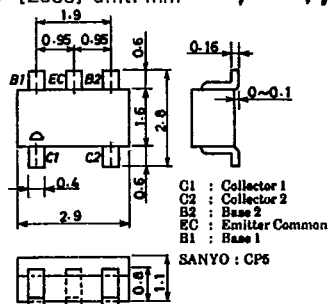


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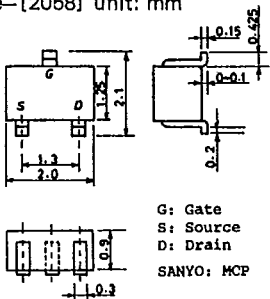
Case Outline—[2057] unit: mm



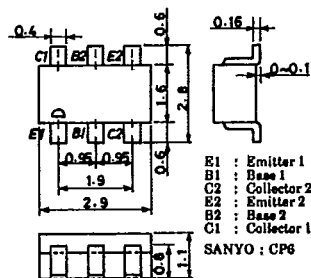
Case Outline—[2066] unit: mm



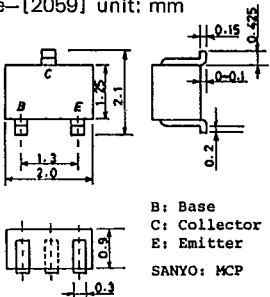
Case Outline—[2058] unit: mm



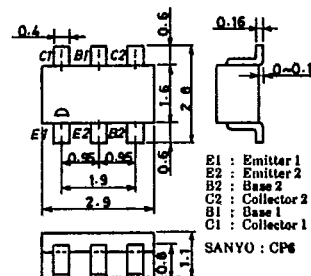
Case Outline—[2067] unit: mm



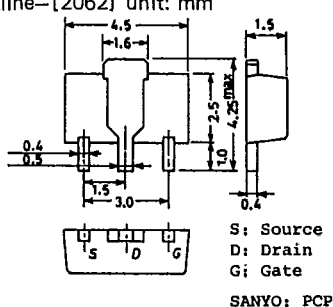
Case Outline—[2059] unit: mm



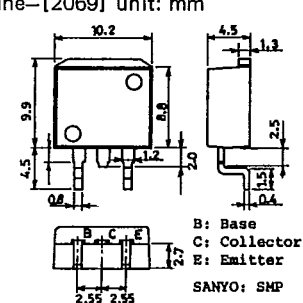
Case Outline—[2068] unit: mm



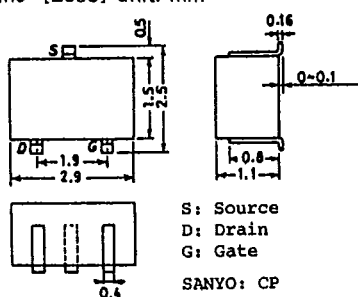
Case Outline—[2062] unit: mm



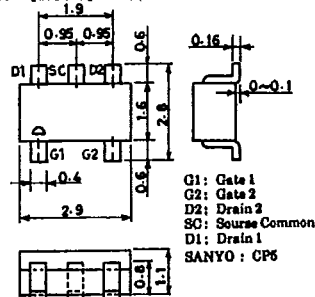
Case Outline—[2069] unit: mm



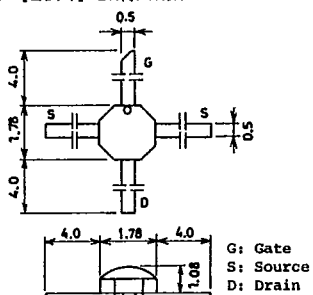
Case Outline—[2065] unit: mm



Case Outline—[2070] unit: mm

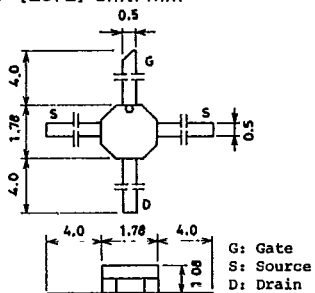


Case Outline—[2071] unit: mm



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Case Outline—[2072] unit: mm



Case Outline—[2073] unit: mm

