

SANYO

No.2392A

2SK772

N-Channel Junction Silicon FET

AF Amp Applications**Applications**

Variable resistors, analog switches, AF amp, constant-current circuit

Features

Adoption of FBET process

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

			unit
Drain to Source Voltage	V_{DSX}	40	V
Gate to Source Voltage	V_{GDS}	-40	V
Gate Current	I_G	10	mA
Drain Current	I_D	20	mA
Allowable Power Dissipation	P_D	300	mW
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^{\circ}\text{C}$

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

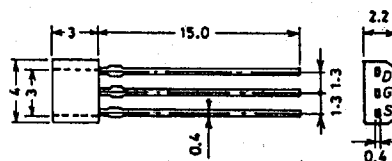
			min	typ	max	unit
Gate to Drain Breakdown Voltage	$V_{(BR)GDS}$	$I_G=-10\mu\text{A}, V_{DS}=0$	-40			V
Gate Cutoff Current	I_{GSS}	$V_{GS}=-20\text{V}, V_{DS}=0$			-1.0	nA
Cutoff Voltage	$I_{GS(off)}$	$V_{DS}=10\text{V}, I_D=1\mu\text{A}$	-0.3	-0.9	-2.5	V
Drain Current	I_{DSS}	$V_{DS}=10\text{V}, V_{GS}=0$	1.2*		12.0*	mA
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{kHz}$	4.5	9.0		mS
Input Capacitance	C_{iss}	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$		9.0		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$		2.1		pF
Noise Figure	NF	$V_{DS}=10\text{V}, R_g=1\text{k}\Omega, I_D=1\text{mA}, f=1\text{kHz}$		1.5		dB

*: The 2SK772 is classified by I_{DSS} as follows: (unit:mA)

1.2	D	3.0	2.5	E	6.0	5.0	F	12.0
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Case Outline 2034

(unit:mm)



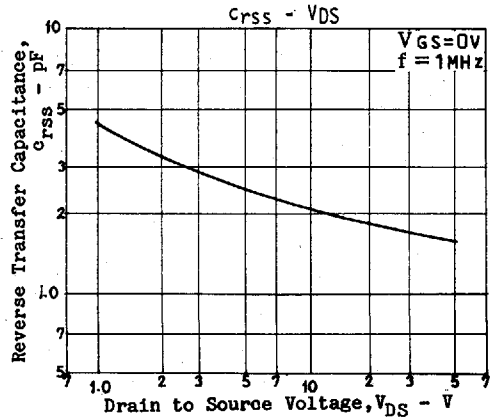
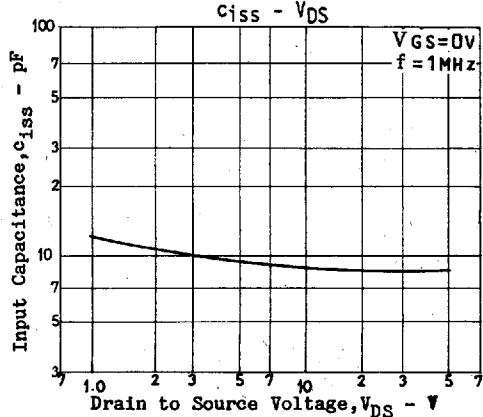
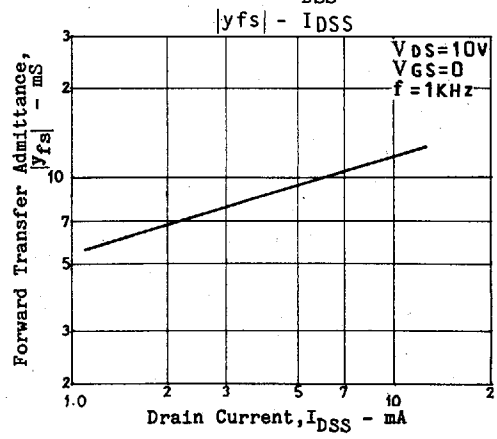
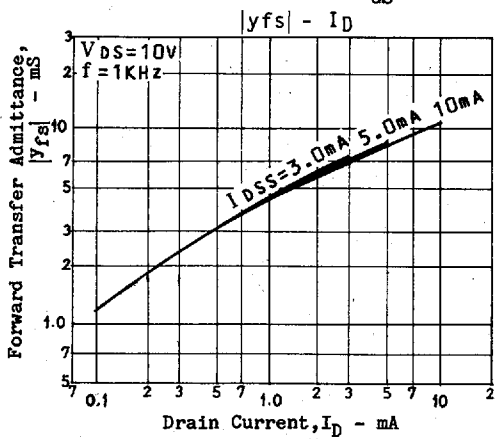
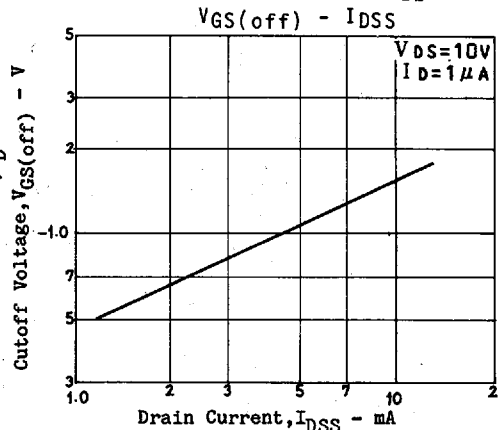
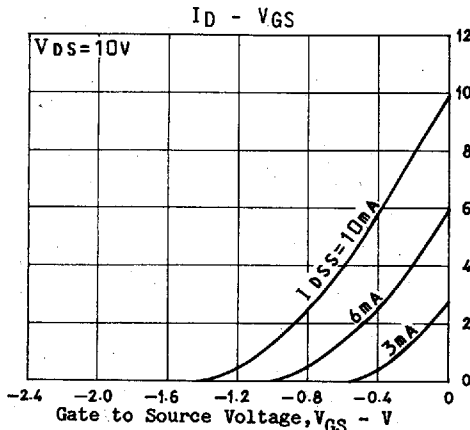
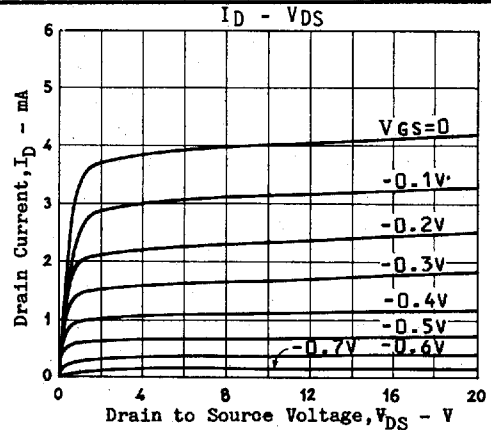
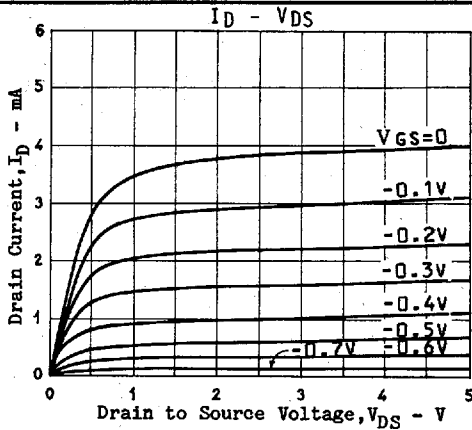
D: Drain
G: Gate
S: Source

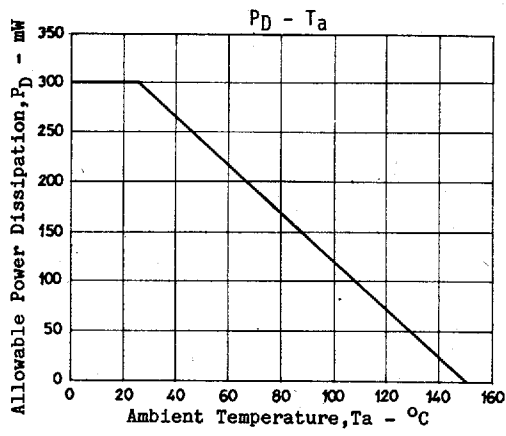
SANYO: SPA

Specifications and information herein are subject to change without notice.

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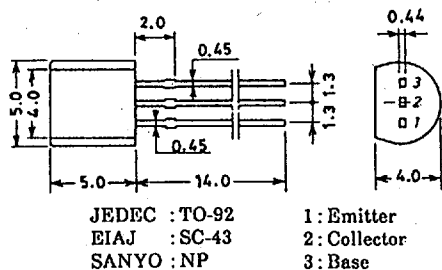




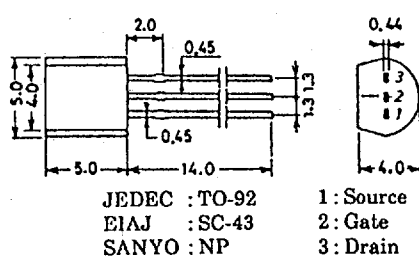
CASE OUTLINES OF LEAD FORMED SMALL SIGNAL TRANSISTORS

- All of Sanyo lead formed small signal 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.

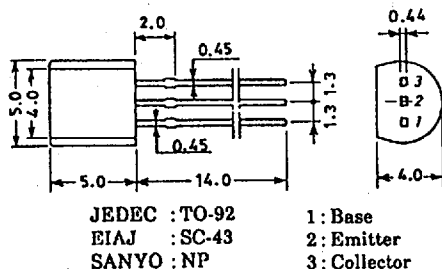
Case Outline 2003A/2003B (unit : mm)



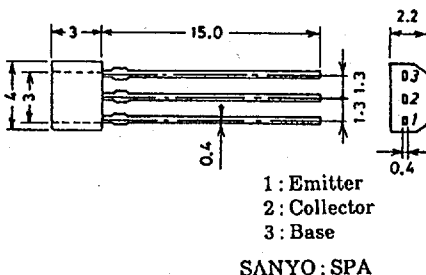
Case Outline 2019A/2019B (unit : mm)



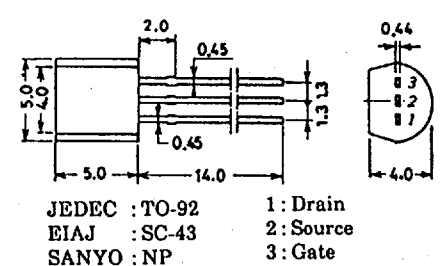
Case Outline 2004A (unit : mm)



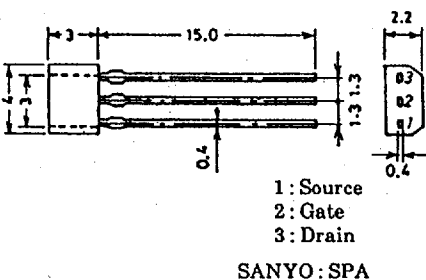
Case Outline 2033 (unit : mm)



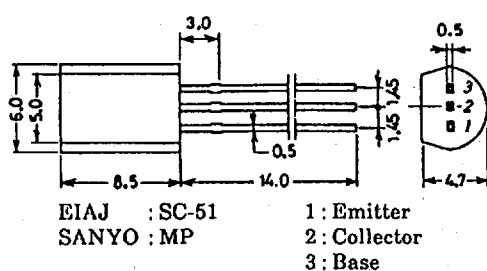
Case Outline 2005A (unit : mm)



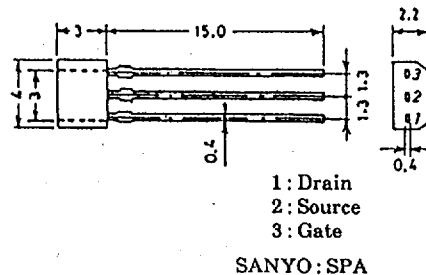
Case Outline 2034/2034A (unit : mm)



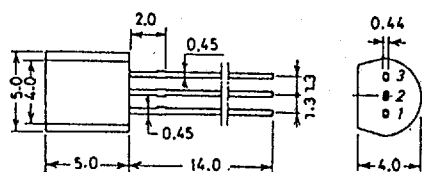
Case Outline 2006A (unit : mm)



Case Outline 2040 (unit : mm)



Case Outline 2061 (unit : mm)



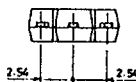
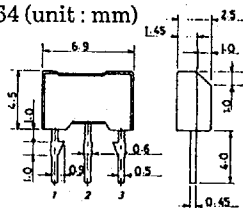
JEDEC : TO-92

EIAJ : SC-43

SANYO : NP

- 1: Emitter
- 2: Base
- 3: Collector

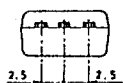
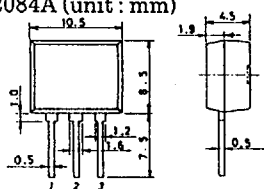
Case Outline 2064 (unit : mm)



- 1: Emitter
- 2: Collector
- 3: Base

SANYO : NMP

Case Outline 2084A (unit : mm)



- 1: Emitter
- 2: Collector
- 3: Base

SANYO : FLP