

SANYO

No.1790B

2SK546

N-Channel Junction Silicon FET

Impedance Converter Applications**Applications**

- Impedance conversion
- Infrared sensor

Features

- Low I_{GSS}
- Small C_{iss}

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

			unit
Drain to Source Voltage	V_{DS}	40	V
Gate to Drain Voltage	V_{GDS}	-40	V
Gate Current	I_G	10	mA
Drain Current	I_D	1	mA
Allowable Power Dissipation	P_D	100	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

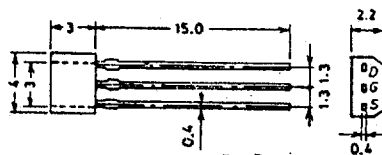
Electrical Characteristics at $T_a=25^\circ\text{C}$

			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}	$V_{GS}=-20\text{V}, V_{DS}=0$			-500	pA
Cutoff Voltage	$V_{GS}(\text{off})$	$V_{DS}=10\text{V}, I_D=1\mu\text{A}$	-1.5	-4.0		V
Drain Current	I_{DSS}	$V_{DS}=10\text{V}, V_{GS}=0$	30*		300*	μA
Forward Transfer Admittance	$ Y_{fs} $	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{kHz}$	0.05	0.13		mS
Input Capacitance	C_{iss}	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$		1.9		pF
Reverse Transfer Capacitance	C_{rss}	$V_{DS}=10\text{V}, V_{GS}=0, f=1\text{MHz}$		0.7		pF

* The 2SK546 is classified by I_{DSS} as follows (unit: μA):

30	I	80	60	J	180	150	K	300
----	---	----	----	---	-----	-----	---	-----

Case Outline 2034
(unit:mm)



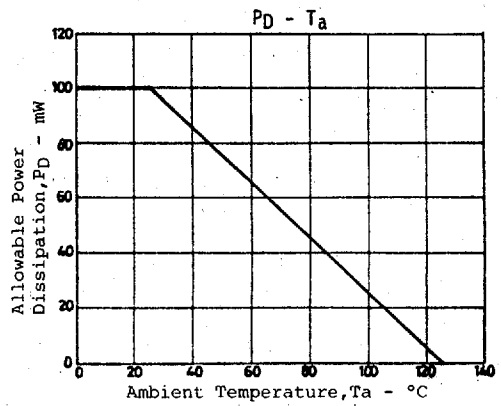
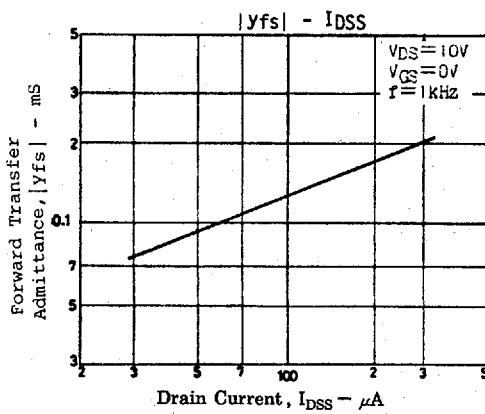
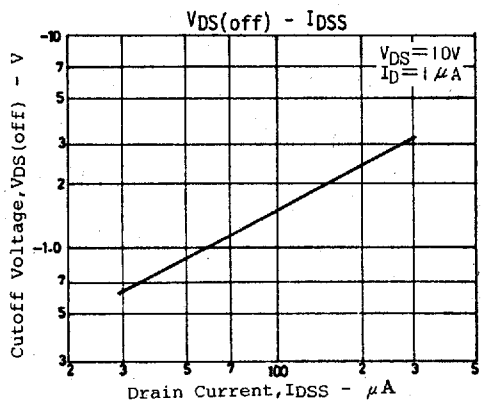
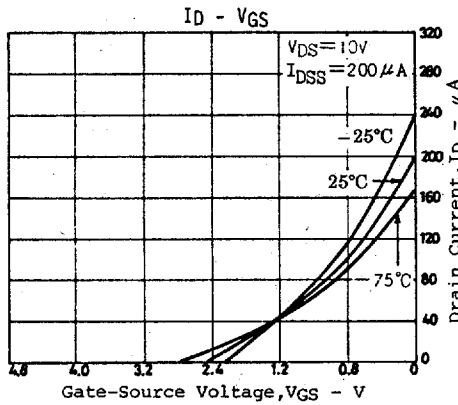
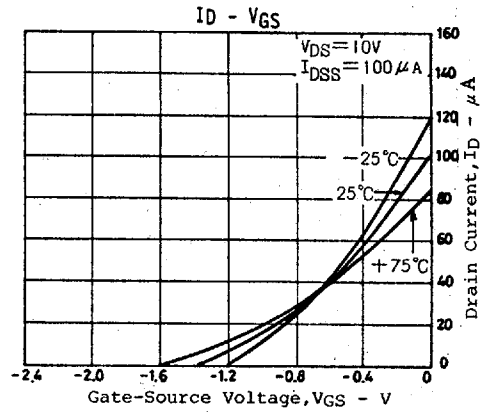
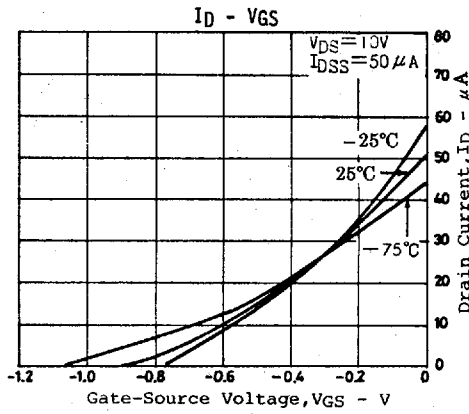
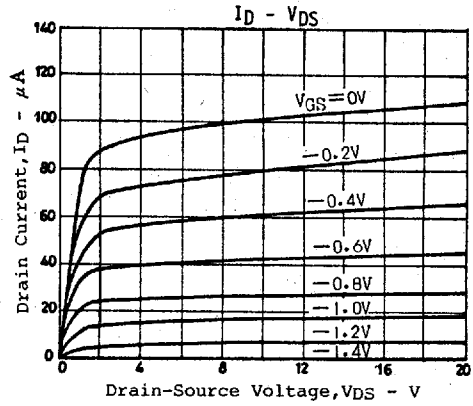
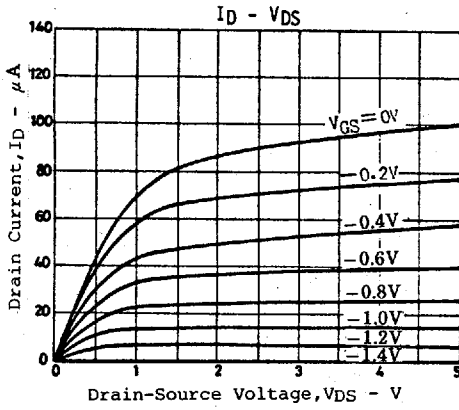
D: Drain
G: Gate
S: Source

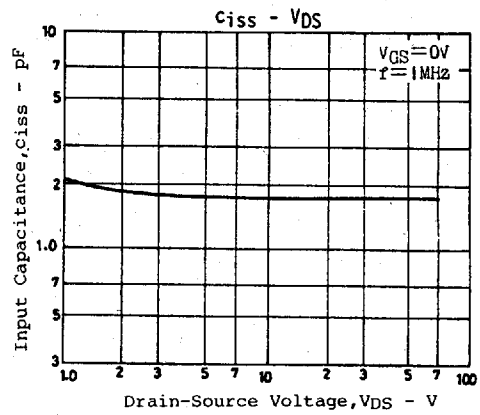
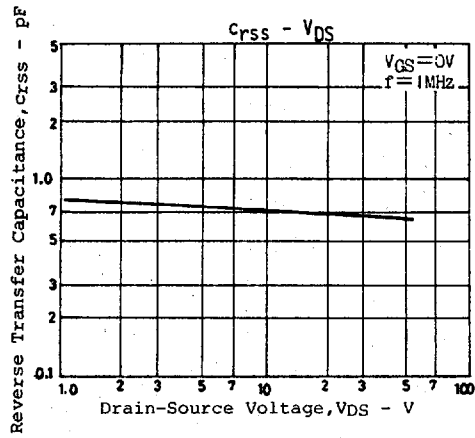
SANYO: SPA

Specifications and information herein are subject to change without notice.

SANYO Electric Co., Ltd. Semiconductor Business Headquarters

TOKYO OFFICE Tokyo Bldg. 1-10, 1 Chome. Ueno, Taito-ku, TOKYO, 110 JAPAN

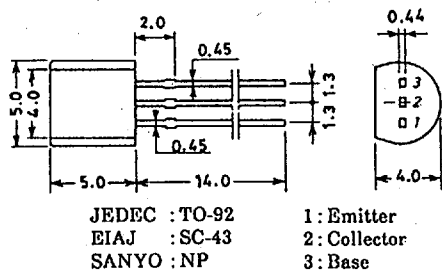




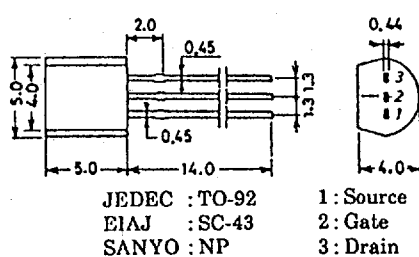
CASE OUTLINES OF LEAD FORMED SMALL SIGNAL TRANSISTORS

- 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.

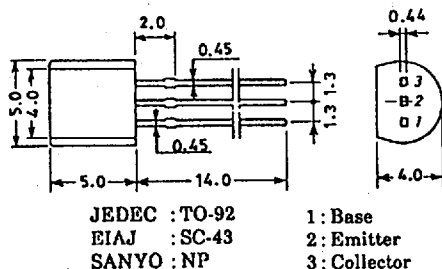
Case Outline 2003A/2003B (unit : mm)



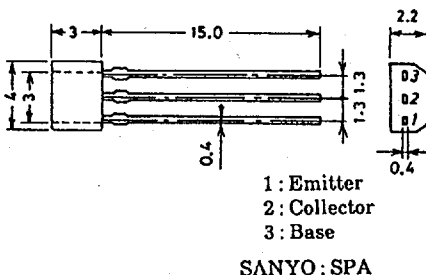
Case Outline 2019A/2019B (unit : mm)



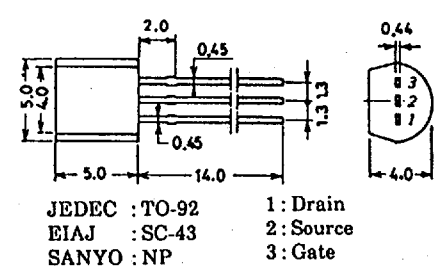
Case Outline 2004A (unit : mm)



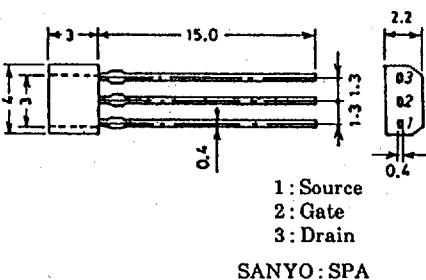
Case Outline 2033 (unit : mm)



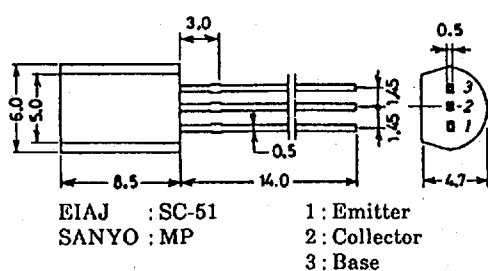
Case Outline 2005A (unit : mm)



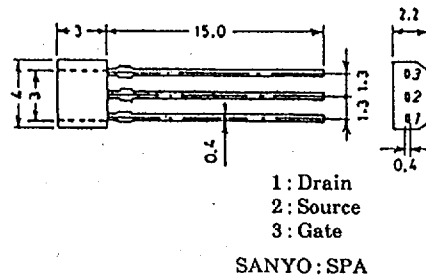
Case Outline 2034/2034A (unit : mm)



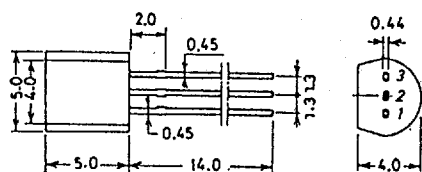
Case Outline 2006A (unit : mm)



Case Outline 2040 (unit : mm)



Case Outline 2061 (unit : mm)



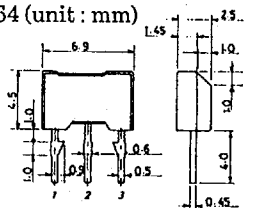
JEDEC : TO-92

EIAJ : SC-43

SANYO : NP

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

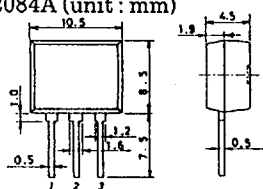
Case Outline 2064 (unit : mm)



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

SANYO : NMP

Case Outline 2084A (unit : mm)



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

SANYO : FLIP