

2026

T-29-25

N-Channel Junction Silicon FET

Capacitor Microphone Applications

®1393A

Features

- . Especially suited for use in audio, telephone capacitor microphones.
- . High μ fs.
- . Excellent voltage characteristic.

Absolute Maximum Ratings at Ta=25°C

Absolute Maximum Ratings at Ta=25°C			unit
Gate-Drain Voltage	V _{GDO}	-20	V
Gate Current	I _G	10	mA
Allowable Power Dissipation	P _D	100	mW
Junction Temperature	T _J	125	°C
Storage Temperature	T _{stg}	-55 to +125	°C

Electrical Characteristics at Ta=25°C

Electrical Characteristics at Ta=25°C		min	typ	max	unit
Drain Current	I_{DSS} $V_{DS}=5V, V_{GS}=0$	60*		800*	uA

■:The 2SK377 is classified by drain current I_{DSS} as follows (unit:uA):

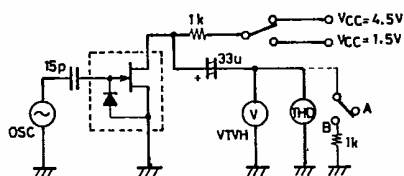
60	J	180	150	K	300	250	L	500	400	M	800
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[Ta=25°C, V_{CC}=4.5V, R_i=1kohm, cin=15pF, specified Test Circuit

Ta=25°C, V _{CC} =4.5V, R _L =1kohm, cin=15pF, specified Test Circuit		min	typ	max	unit
Transmission Loss	G _V f=1kHz, V _{in} =100mV		-3.5		dB
Reduced Voltage Characteristic	ΔG _{VV} f=1kHz, V _{in} =100mV V _{CC} =4.5 to 1.5V			-3	dB
Frequency Response	ΔG _{Vf} f=1kHz to 110Hz, V _{in} =100mV			-1	dB
Input Impedance	Z _{in} f=1kHz	18.0			Mohm
Output Impedance	Z _o f=1kHz			1.0	kohm
Total Harmonic Distortion	THD f=1kHz, V _{in} =100mV		3		%
Output Noise Voltage	V _{NO} V _{in} =0, A curve			-110	dB

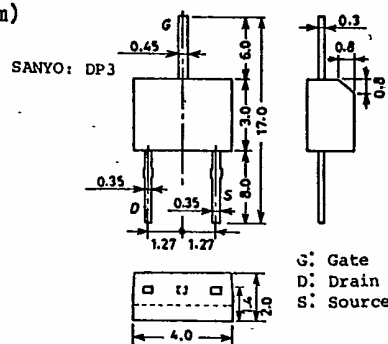
Specified Test Circuit

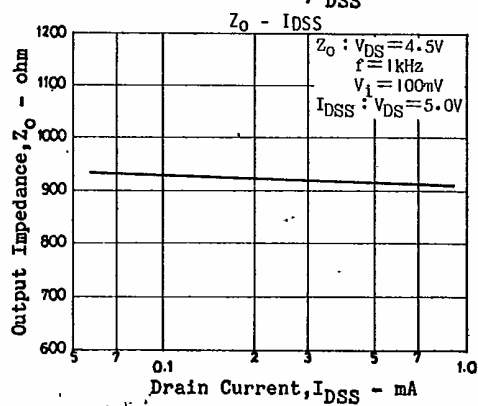
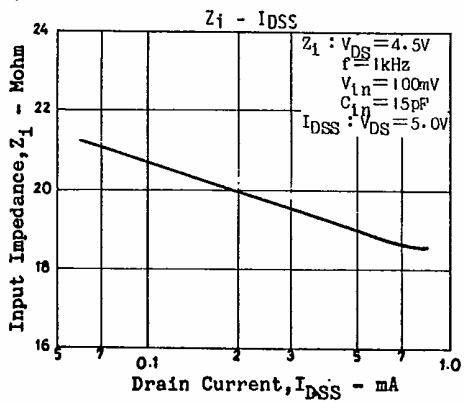
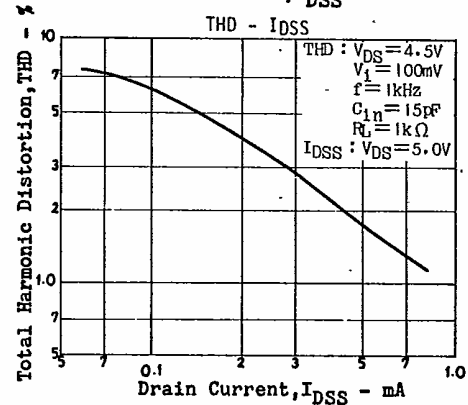
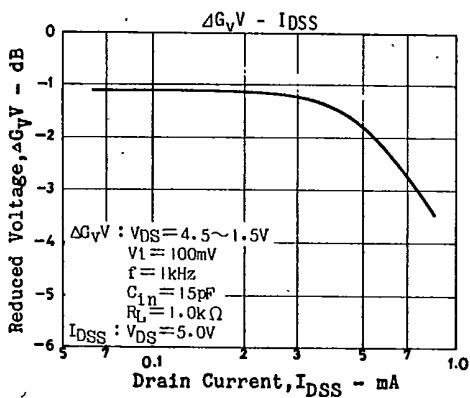
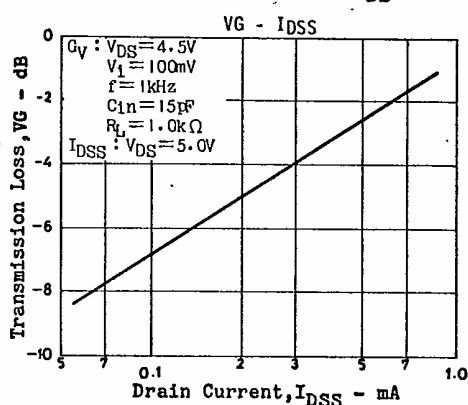
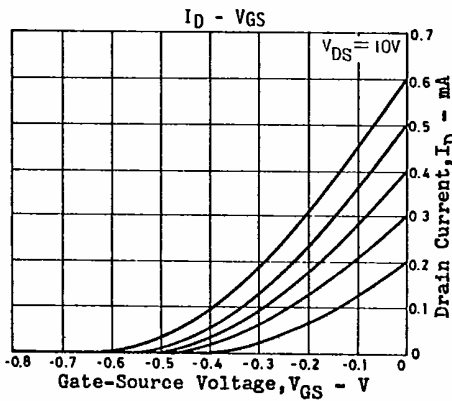
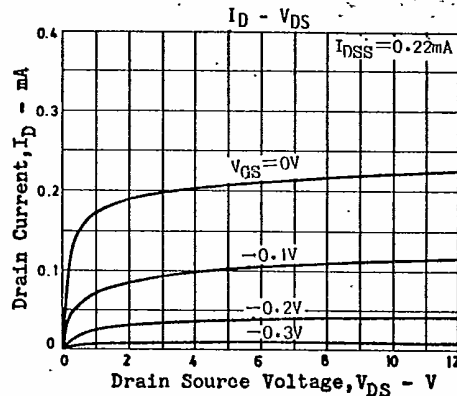
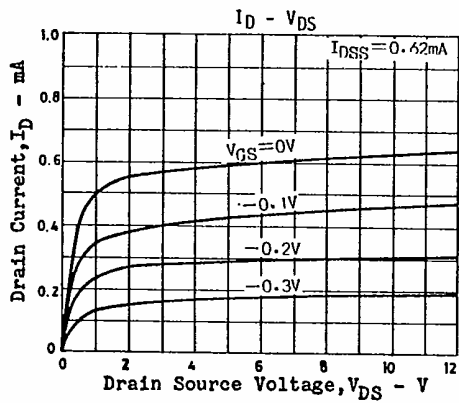
- Transmission loss
- Frequency response
- Distortion
- Reduced voltage characteristic

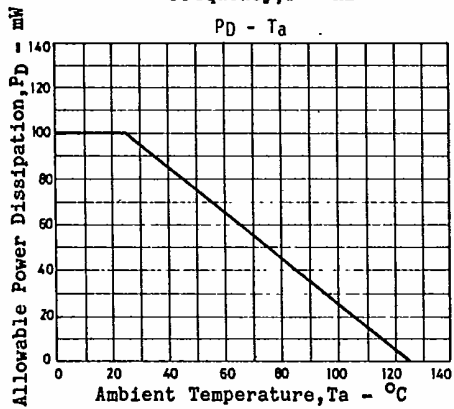
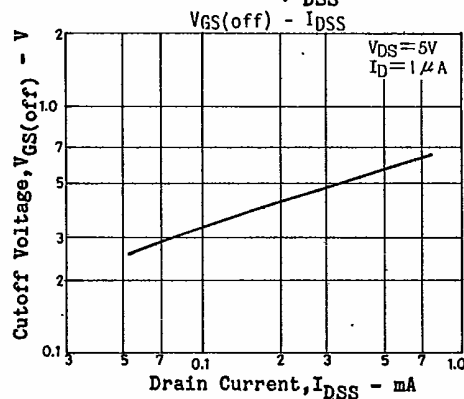
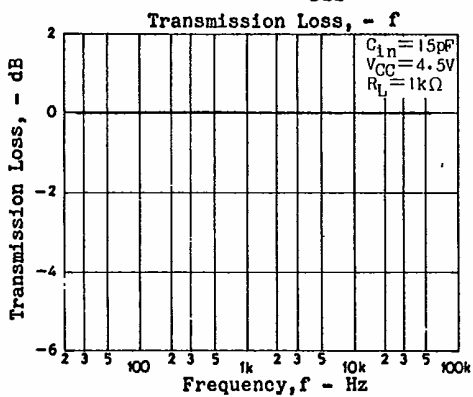
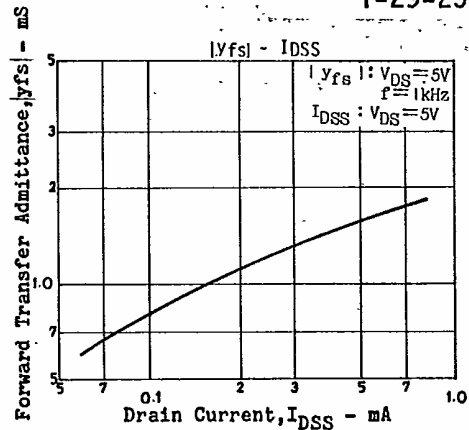
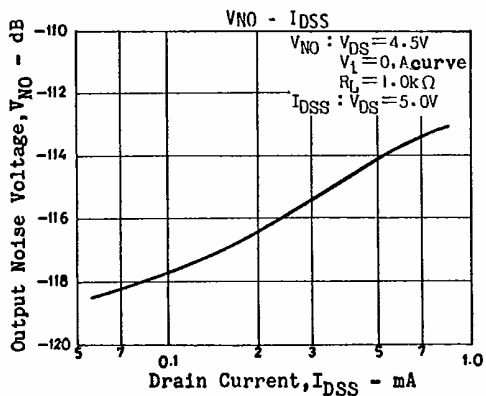


For output impedance

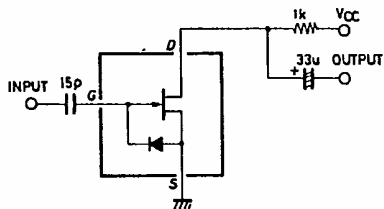
Case Outline 2026
(unit:mm)







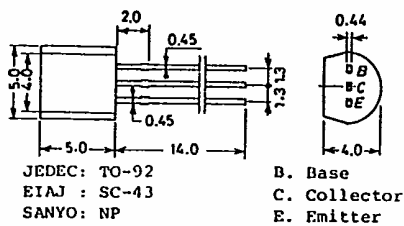
Sample Application Circuit: 2-wire type



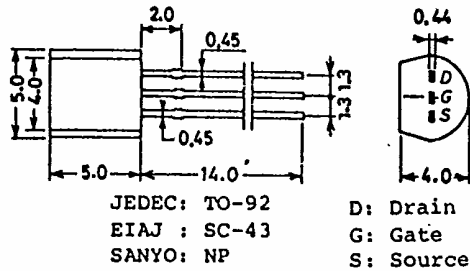
CASE OUTLINES OF LEAD FORMED SMALL SIGNAL TRANSISTORS

- 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.

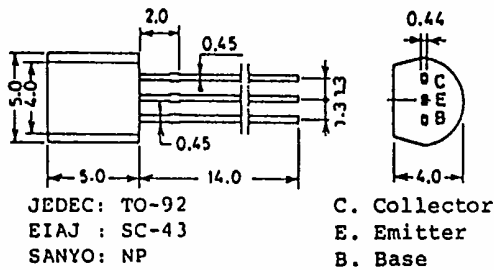
Case Outline—[2003A] unit: mm



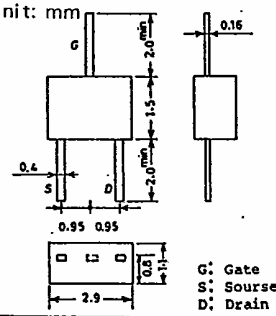
Case Outline—[2019A] unit: mm



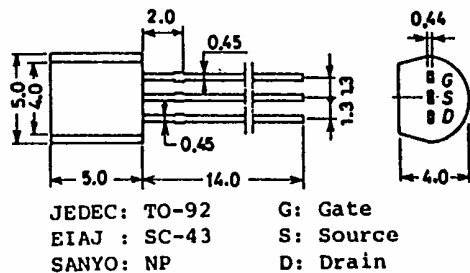
Case Outline—[2004A] unit: mm



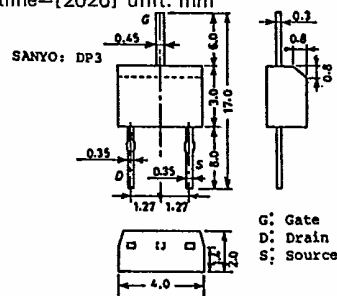
Case Outline—[2025] unit: mm



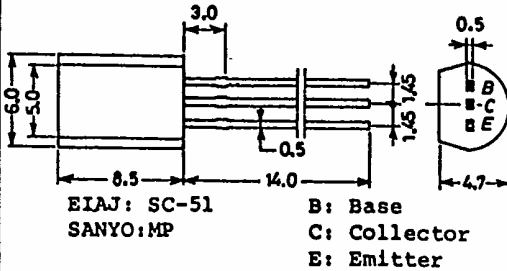
Case Outline—[2005A] unit: mm



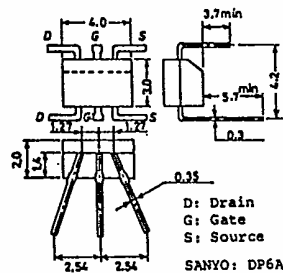
Case Outline—[2026] unit: mm



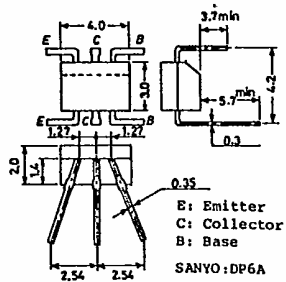
Case Outline—[2006A] unit: mm



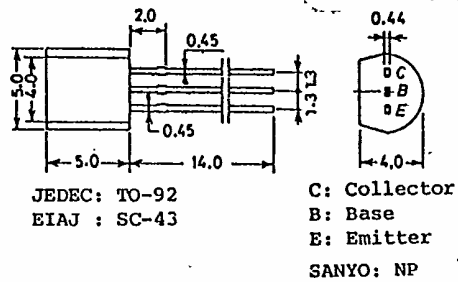
Case Outline—[2027A] unit: mm



Case Outline—[2029A] unit: mm

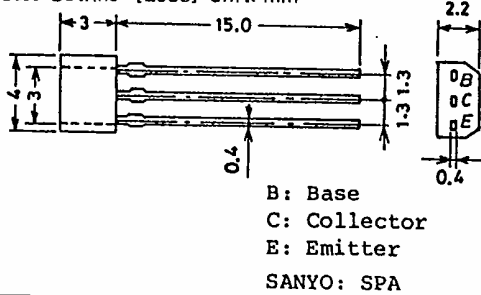


Case Outline—[2061] unit: mm

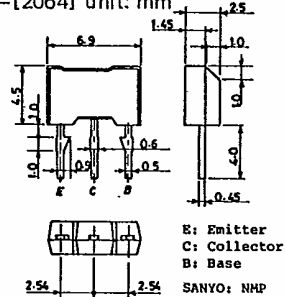


T-91-20

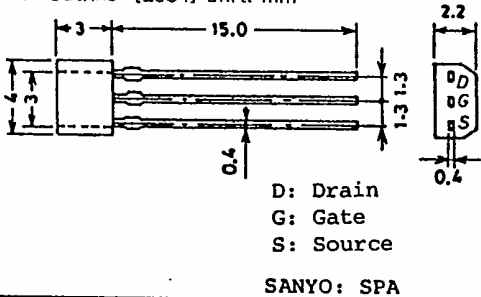
Case Outline—[2033] unit: mm



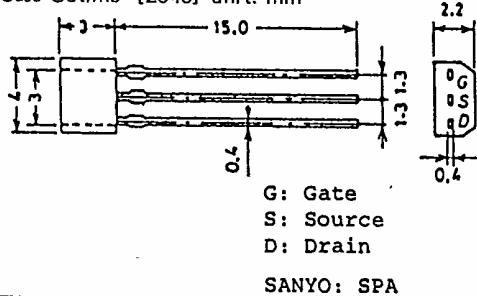
Case Outline—[2064] unit: mm



Case Outline—[2034] unit: mm



Case Outline—[2040] unit: mm



Case Outline—[2051] unit: mm

