

2SA984
984K
2SC2274
2274K



2003A

PNP/NPN Epitaxial Planar
Silicon Transistors

T-29-21

Low-Frequency Power Amp Applications

E465F

Features

- High breakdown voltage ($V_{CE0} \geq 50/80V$).
- High current ($I_C = 500mA$).
- Low saturation voltage.

(): 2SA984, 984K

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

	A984, C2274	A984K, C2274K	unit
Collector to Base Voltage V_{CBO}	(-) 60	(-) 100	V
Collector to Emitter Voltage V_{CEO}	(-) 50	(-) 80	V
Emitter to Base Voltage V_{EBO}	(-) 5		V
Collector Current I_C	(-) 500		mA
Peak Collector Current i_{cp}	(-) 800		mA
Collector Dissipation P_C	600		mW
Junction Temperature T_j	150		$^\circ C$
Storage Temperature T_{stg}	-55 to +150		$^\circ C$

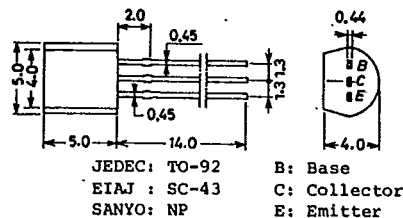
Electrical characteristics at $T_a = 25^\circ C$

		min	typ	max	unit
Collector Cutoff Current I_{CBO}	$V_{CB} = (-) 40V, I_E = 0$		(-) 1.0		μA
Emitter Cutoff Current I_{EBO}	$V_{EB} = (-) 4V, I_C = 0$		(-) 1.0		μA
DC Current Gain $h_{FE}(1)$	$V_{CE} = (-) 5V, I_C = (-) 50mA$	60*		320*	
	$h_{FE}(2) V_{CE} = (-) 5V, I_C = (-) 400mA$ (pulse)	35			
Gain-Bandwidth Product f_T	$V_{CE} = (-) 10V, I_C = (-) 10mA$		120		MHz
Output Capacitance C_{ob}	$V_{CB} = (-) 10V, f = 1MHz$		(9)		pF
			5		pF
C-E Saturation Voltage $V_{CE}(sat)$	$I_C = (-) 400mA, I_E = (-) 40mA$	(-) 0.25	(-) 0.6		V
B-E Saturation Voltage $V_{BE}(sat)$	" "	0.2	0.6		V
C-B Breakdown Voltage $V(BR)_{CBO}$	$I_C = (-) 10\mu A, I_E = 0$	(-) 0.9	(-) 1.2		V
	A984, C2274 (-) 60				V
	A984K, C2274K (-) 100				V
C-E Breakdown Voltage $V(BR)_{CEO}$	$I_C = (-) 1mA, R_{BE} = \infty$	(-) 50			V
	A984, C2274 (-) 50				V
	A984K, C2274K (-) 80				V
E-B Breakdown Voltage $V(BR)_{EBO}$	$I_E = (-) 10\mu A, I_C = 0$	(-) 5			V

* The 2SA984, K, 2SC2274, K are classified by 50mA h_{FE} as follows.

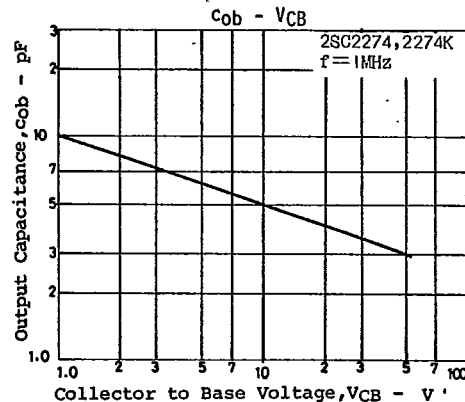
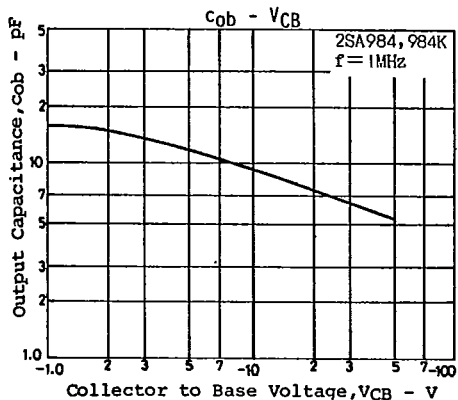
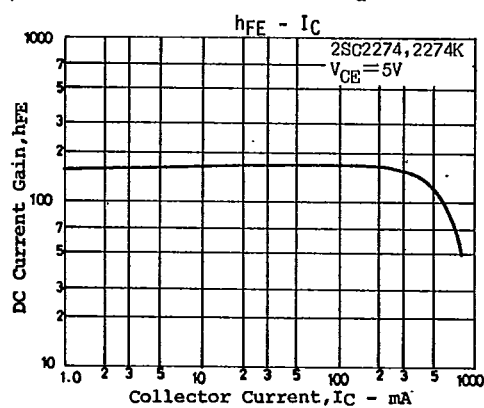
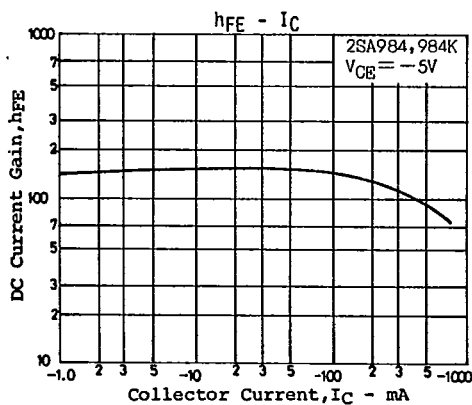
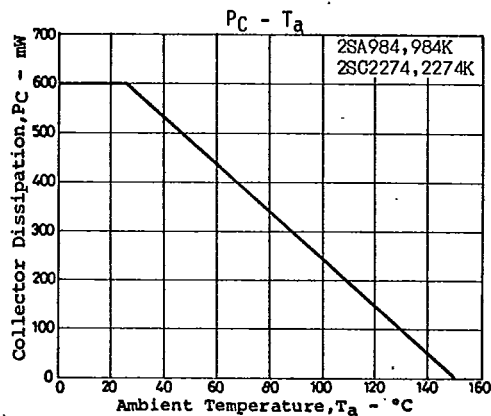
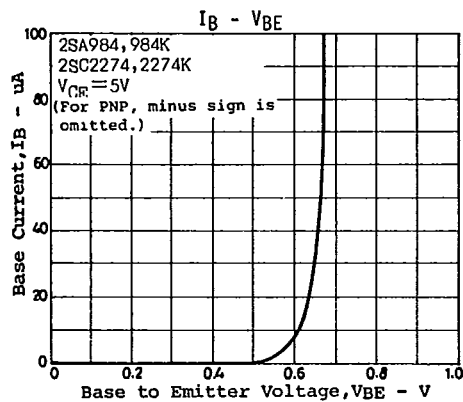
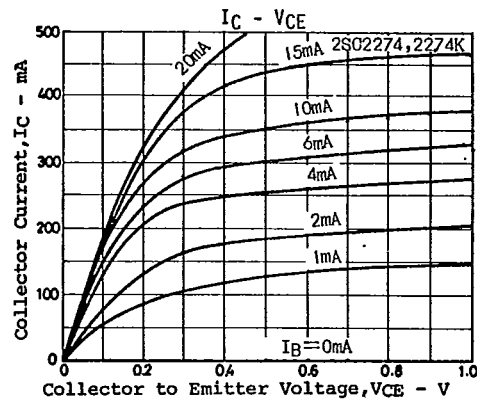
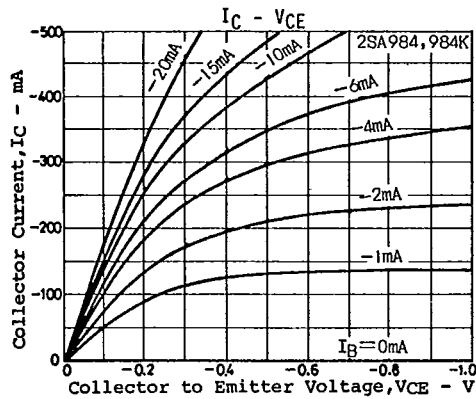
60	D	120	100	E	200	160	F	320
----	---	-----	-----	---	-----	-----	---	-----

Case Outline 2003A (unit:mm)



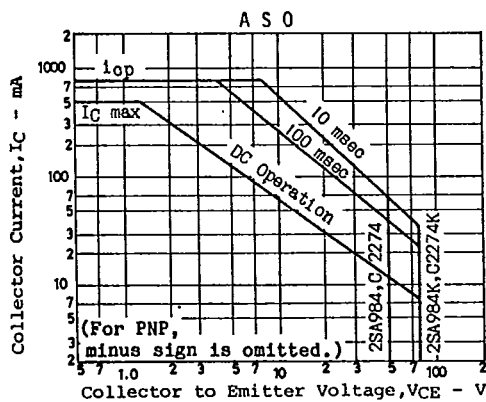
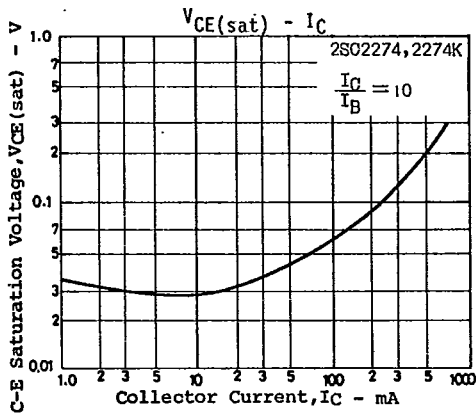
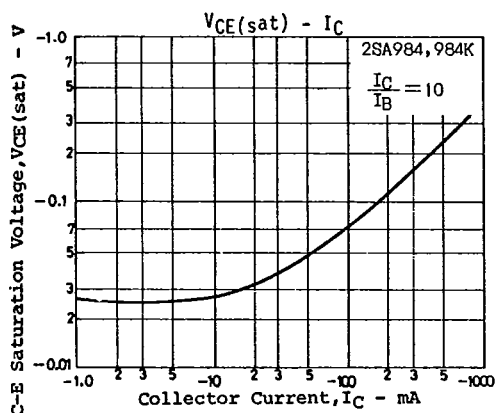
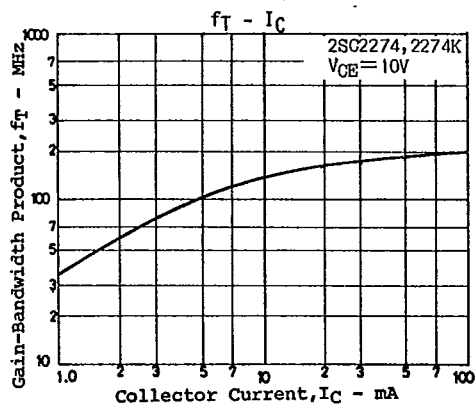
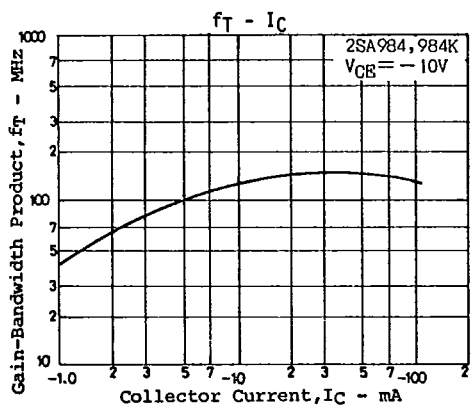
The 2SC2274K is scheduled to be discontinued soon. Use the 2SC3708, instead of the 2SC2274K, in new applications where you are planning to use the 2SC2274K.

3187AT/3155MY, TS No. 465-1/3



2SA984,984K/2SC2274,2274K

T-29-21

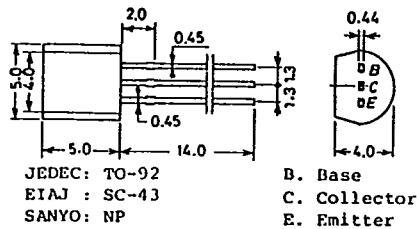


T-91-20

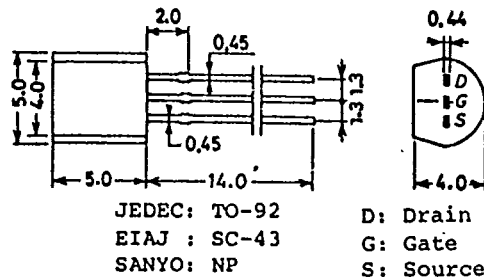
CASE OUTLINES OF LEAD FORMED SMALL SIGNAL TRANSISTORS

- 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.

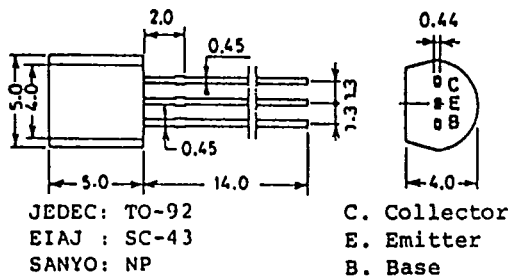
Case Outline—[2003A] unit: mm



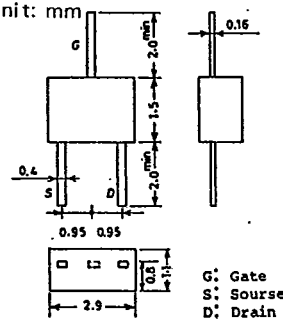
Case Outline—[2019A] unit: mm



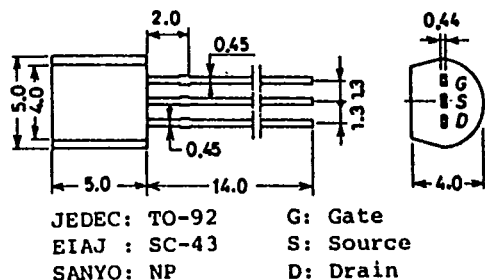
Case Outline—[2004A] unit: mm



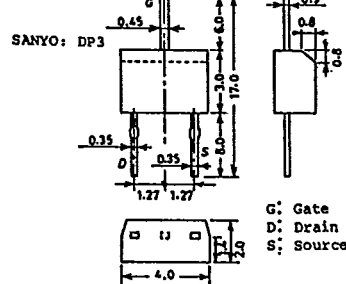
Case Outline—[2025] unit: mm



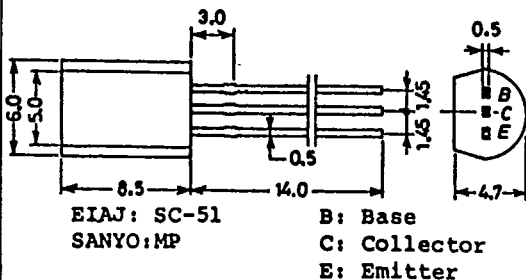
Case Outline—[2005A] unit: mm



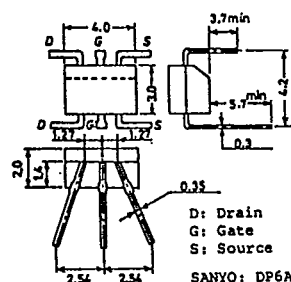
Case Outline—[2026] unit: mm



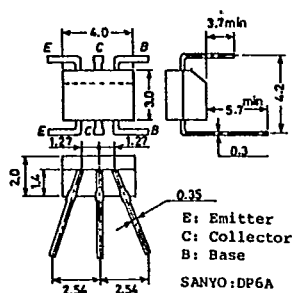
Case Outline—[2006A] unit: mm



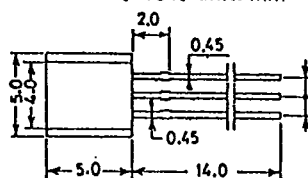
Case Outline—[2027A] unit: mm



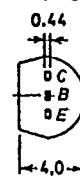
Case Outline—[2029A] unit: mm



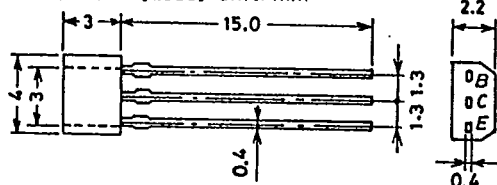
Case Outline—[2061] unit: mm



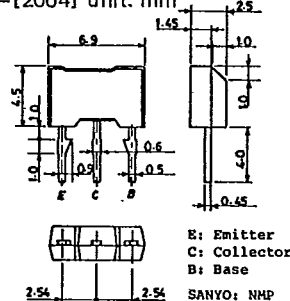
T-91-20



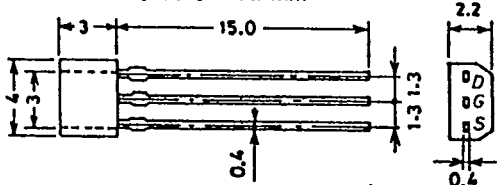
Case Outline—[2033] unit: mm



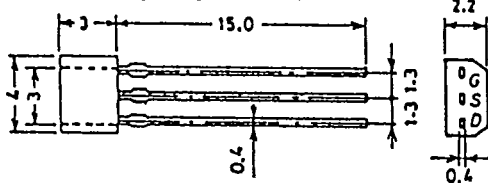
Case Outline—[2064] unit: mm



Case Outline—[2034] unit: mm



Case Outline—[2040] unit: mm



Case Outline—[2051] unit: mm

