°C

v

v

v

V



PNP/NPN Epitaxial Planar Silicon Transistors

A984K,C2274K(-)80

-55 to +150

Low-Frequency Power Amp Applications

©465F

Features

- . High breakdown voltage(V_{CEO}≥50/80V).
- . High current (IC=500mA).

Storage Temperature

E-B Breakdown Voltage

. Low saturation voltage.

(): 2SA984.984K

(): 25A364,364K		•		
Absolute Maximum Ratings at Ta=25°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	$I_{\mathbf{C}}$	(-)	500 -	mΆ
Peak Collector Current	icp	(-)	800	mA
Collector Dissipation	PC	•	600	mW
Junction Temperature	Тj		150	°C

Electrical characteristics at Ta=25°C t

Tstq

rectrical characteristics at 1a-25 C		min	typ max	unit
Collector Cutoff Curren	I_{CBO} $V_{CB}=(-)40V, I_{E}=0$		(-)1.0	uA
Emitter Cutoff Current	I _{EBO} V _{EB} =(-)4V,I _C =0		(-)1.0	uA
DC Current Gain	$h_{FE}(1)V_{CE}=(-)5V,I_{C}=(-)50mA$	60*	320*	
•	hipp (2) Von= (-) 5V Tom (-) 400m7 (null co)	35		

 $n_{FE}(2)V_{CE}=(-)5V,I_{C}=(-)400mA(pulse)$ 35 Gain-Bandwidth Product fт $V_{CE}=(-)10V, I_{C}=(-)10mA$ 120 MHz Output Capacitance cob $V_{CB}=(-)10V, f=1MHz$ (9) рF pF

C-E Saturation Voltage $(I_C = (-)400 \text{mA})$ VCE(sat) (-0.25)(-0.6)v $I_{B}=(-)40mA$ 0.2 0.6 B-E Saturation Voltage VBE(sat) (-)0.9(-)1.2 VC-B Breakdown Voltage V(BR)CBO (IC=(-)10uA A984,C2274(-)60 A984K,C2274K(-)100 C-E Breakdown Voltage [C=(-)lmA A984,C2274(-)50 V(BR)CEO

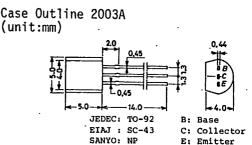
R_{BE}=∞

 $I_E = (-) 10uA, I_C = 0$

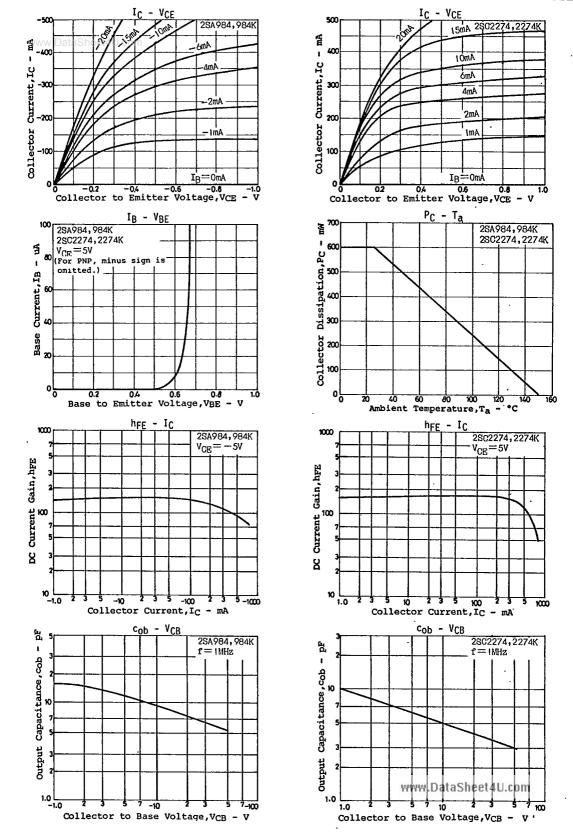
* The 2SA984,K, 2SC2274,K are classified by 50mA $h_{
m FE}$ as follows.

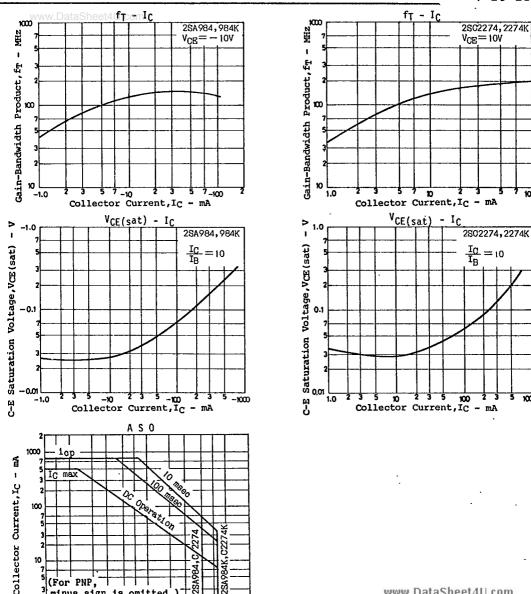
V (BR) EBO

60 120 | 100 200 160



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





(For PNP,

minus sign is omitted.

Collector to Emitter Voltage, VCE

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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 may
 - •All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.
 - No marking is indicated.

