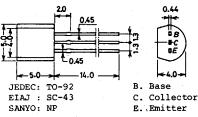
2SA1318/2SC3331 No.1600A PNP/ NPN Epitaxial Planar Silicon Transistors SAMM. AF Amp Applications Use . Capable of being used in the low frequency to high frequency range. Features . Large current capacity and wide ASO. (): 2SA1318 Absolute Maximum Ratings at Ta=25°C unit Collector to Base Voltage (-)60 v vсво V Collector to Emitter Voltage V<sub>CEO</sub> (-)50 Emitter to Base Voltage V<sub>EBO</sub> (-)6 V Collector Current ιc (-)200 mA -)400 Collector Current (Pulse) ICP mA P<sub>C</sub> Tj **Collector** Dissipation 500 mW oC Junction Temperature 150 °C Storage Temperature Tstg -55 to +150 Electrical Characteristics at Ta=25°C min typ max unit μA Collector Cutoff Current (-)0.1I<sub>CBO</sub>  $V_{CB} = (-)40V, I_E = 0$ (-)0.1 V<sub>EB</sub>=(-)5V,I<sub>C</sub>=0 V<sub>CE</sub>=(-)6V,I<sub>C</sub>=(-)1mA μA Emitter Cutoff Current IEBO 100 DC Current Gain 800 <sup>h</sup>FE(1) (100)(560)  $V_{CE} = (-)6V, I_{C} = (-)0.1 \text{mA}$ hFE(2) 70  $V_{CE}^{-}=(-)6V, I_{C}^{-}=(-)10mA$ Gain-Bandwidth Product  $\mathbf{f}_{\mathbf{T}}$ 200 MHz  $V_{CB}^{-}=(-)6V, f=1MHz$ Output Capacitance 3.0 pF <sup>c</sup>ob (4.5)Continued on next page. \* The 2SA1318/2SC3331 are classified by 1mA  $h_{FE}$  as follows: 280 560 2SA1318 100 R 200 140 S 200 T 400 280 U 200 560 100 200 140 280 400 280 400 800 2SC3331 R S Т U V Case Outline 2003A (unit:mm)



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

3197KI/D054MW,TS No.1600-1/3

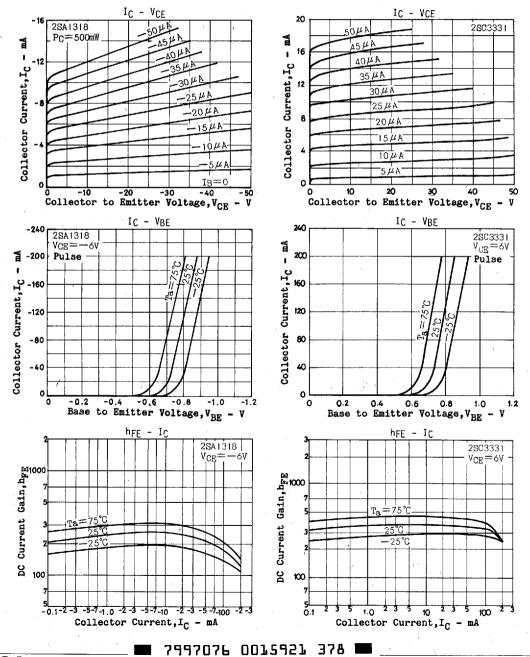
Ordering number: EN 1600A

7997076 0015920 431

## 2SA1318/2SC3331

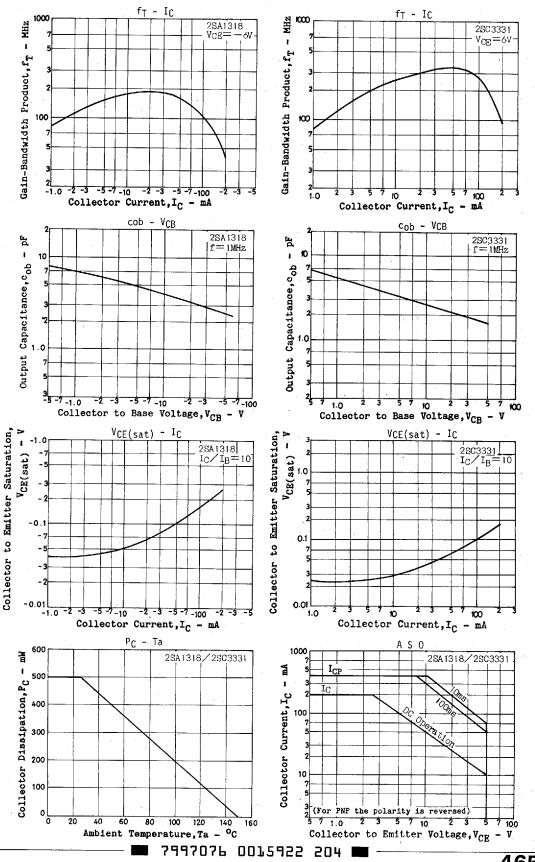
## Continued from preceding page.

			min	typ max	unit
Collector to Emitter	V <sub>CE(sat)</sub>	I <sub>C</sub> =(-)100mA, I <sub>B</sub> =(-)10mA		(-)0.3	V
Saturation Voltage		$I_{B}=(-)10mA$			
Base to Emitter	V <sub>BE(sat)</sub>	I <sub>C</sub> =(-)100mA, I <sub>B</sub> =(-)10mA		(-)1.0	V
Saturation Voltage	22(540)	I <sub>B</sub> =(-)10mA			
Collector to Base	V(BR)CBO	$I_{C}^{-}=(-)10\mu A, I_{E}=0$	(-)60		V
Breakdown Voltage					
Collector to Emitter	V(BR)CEO	$I_{C}=(-)1mA, R_{BE}=\infty$	(-)50		V
Breakdown Voltage					
Emitter to Base	V <sub>(BR)EBO</sub>	$I_{E}^{=(-)10\mu}A, I_{C}^{=0}$	(-)6		• V
Breakdown Voltage	(	<b>-</b> , <b>v</b>			



464

2SA1318/2SC3331



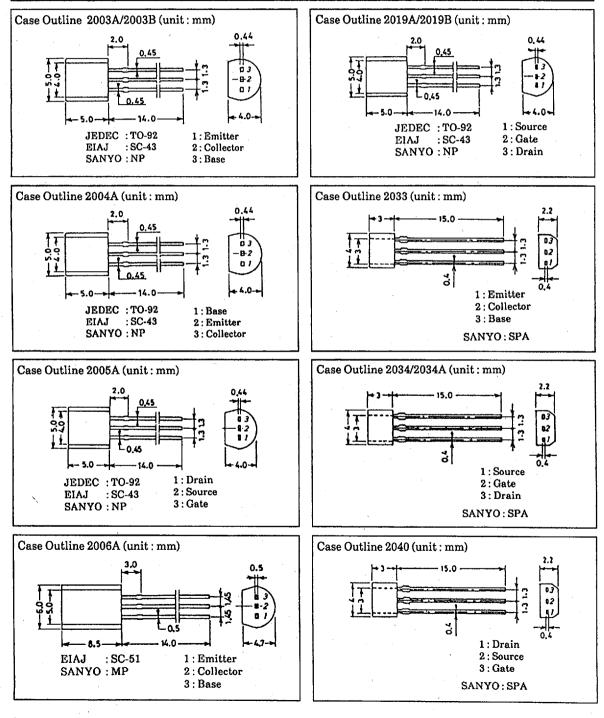
465

## CASE OUTLINES OF LEAD FORMED SMALL SIGNAL TRANSISTORS

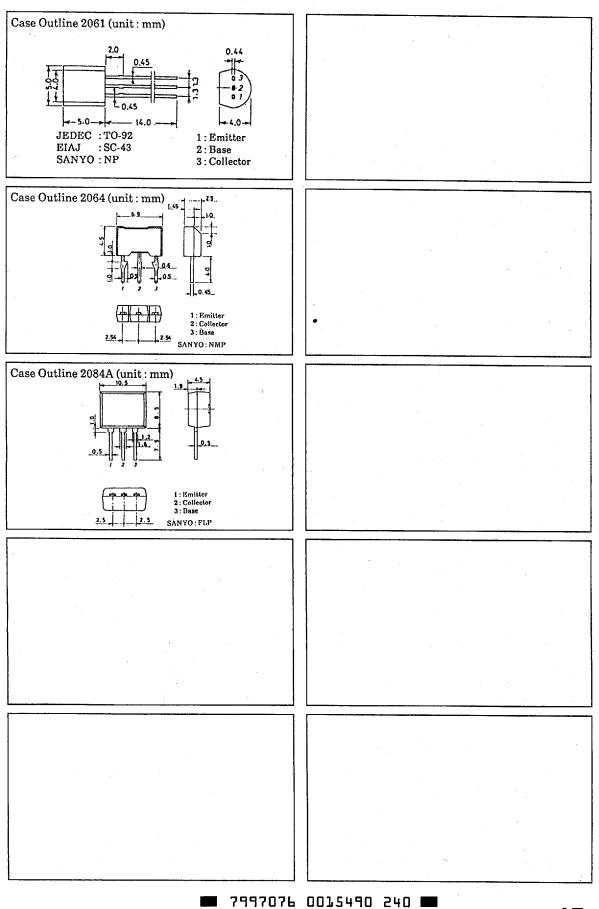
• All of Sanyo lead formed small signal transistor case outlines are illustrated below.

• All dimensions are in mm, and dimensions which are not followed by min. or max. are represented by typical values.

•No marking is indicated.



7997076 0015489 529 🖿



This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.