

2SC3064

2029A

NPN Epitaxial Planar
Silicon Composite Transistor

T-29-27

Differential Amp Applications

©9588

Applications

- Differential amp, current mirror, temperature compensator.

Features

- Excellent in thermal equilibrium and suited for use in differential amp applications.
- Matched pair capability.

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

			unit
Collector to Base Voltage	V_{CB0}	55	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Current	V_{EBO}	5	V
Collector Current	I_C	150	mA
Peak Collector Current	i_{cp}	300	mA
Collector Dissipation	P_C	200	mW
Total Dissipation	P_T	400	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

1 unit

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

			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB}=35\text{V}, I_E=0$			0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=6\text{V}, I_C=1\text{mA}$	100*		960*	
DC Current Gain Ratio	$h_{FE(\text{small/large})}$	$V_{CE}=6\text{V}, I_C=1\text{mA}$	0.85	0.98		
Base to Emitter Voltage Drop	$V_{BE(\text{large-small})}$	$V_{CE}=6\text{V}, I_C=1\text{mA}$		1.0	10	mV
Collector to Emitter Saturation Voltage	$V_{CE(\text{sat})}$	$I_C=50\text{mA}, I_B=5\text{mA}$			0.5	V
Gain-Bandwidth Product	f_T	$V_{CE}=6\text{V}, I_C=1\text{mA}$		100		MHz
Output Capacitance	c_{ob}	$V_{CB}=10\text{V}, f=1\text{MHz}$		2.5		pF

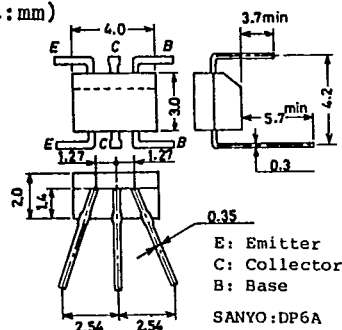
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*The 2SC3064 is classified by $h_{FE(\text{small})}$ as follows:

100	E	200	160	F	320	280	G	560	480	H	960
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Case Outline 2029A

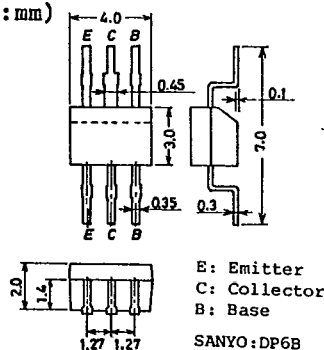
(unit:mm)



The 2SC3064 is provided with a surface mounted package.

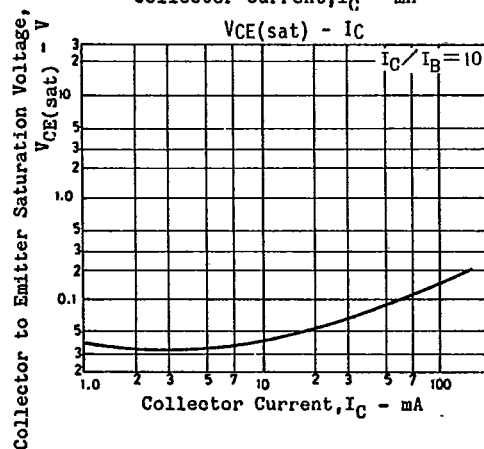
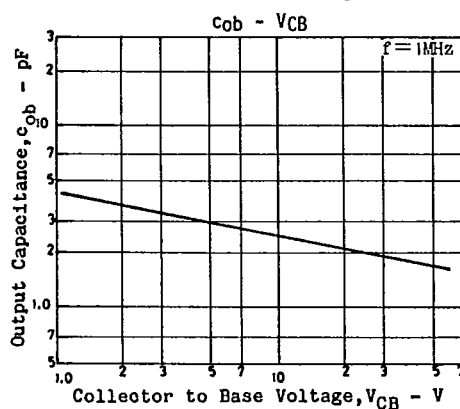
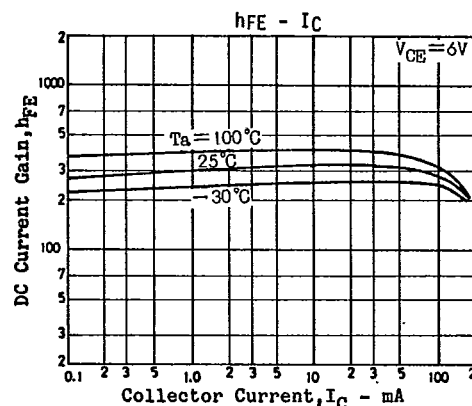
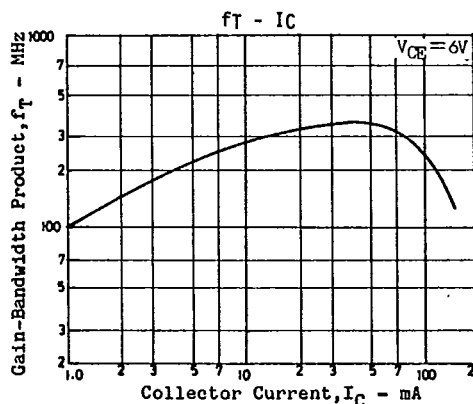
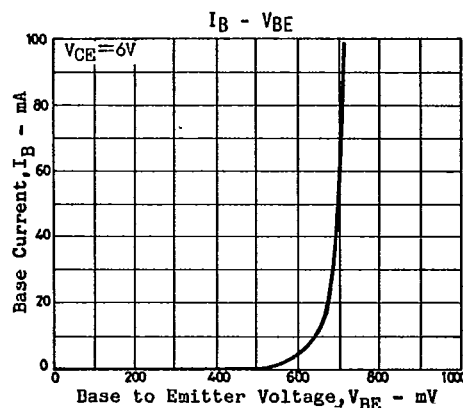
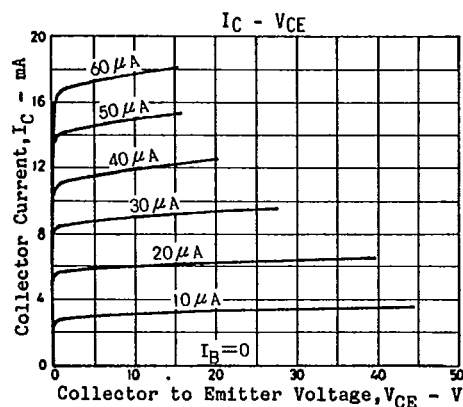
Case Outline 2030A

(unit:mm)



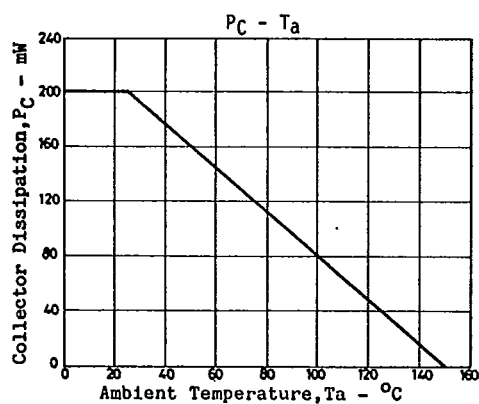
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			min	typ	max	unit
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	55			V
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, R_{BE}=\infty$	50			V
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5			V



2SC3064

T-29-27

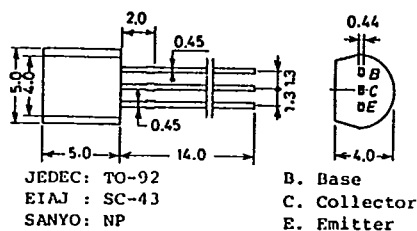


T-91-20

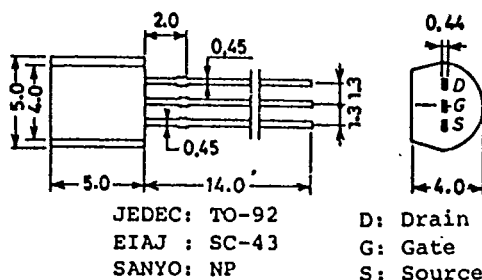
CASE OUTLINES OF LEAD FORMED SMALL SIGNAL TRANSISTORS

- 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.

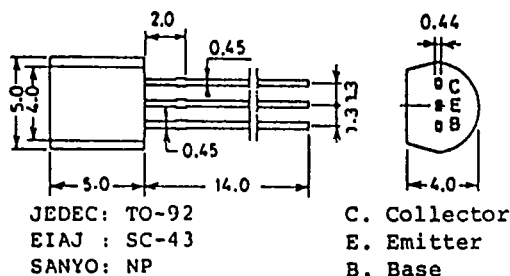
Case Outline—[2003A] unit: mm



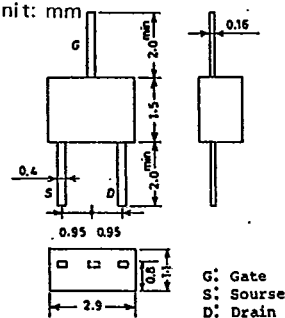
Case Outline—[2019A] unit: mm



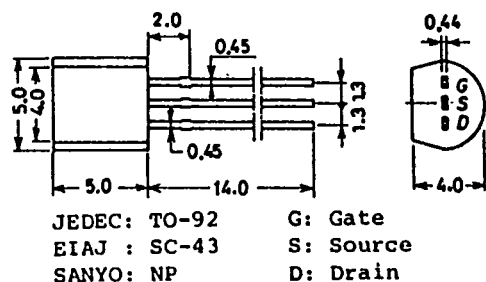
Case Outline—[2004A] unit: mm



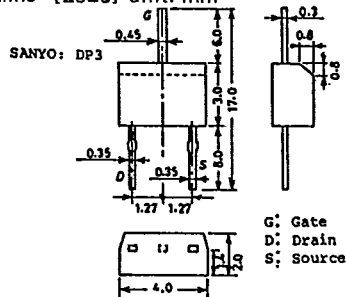
Case Outline—[2025] unit: mm



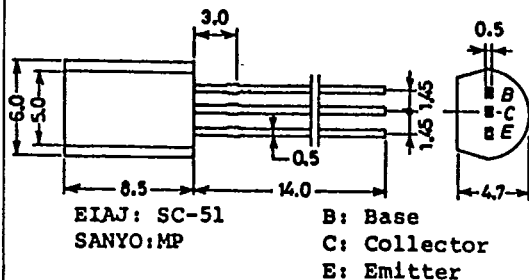
Case Outline—[2005A] unit: mm



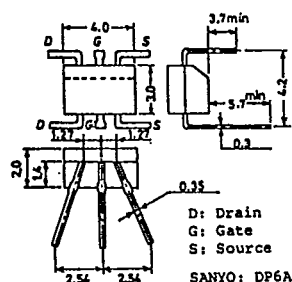
Case Outline—[2026] unit: mm



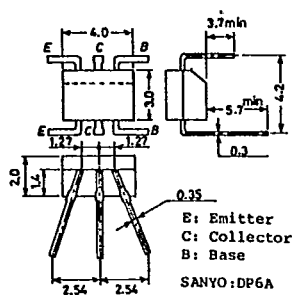
Case Outline—[2006A] unit: mm



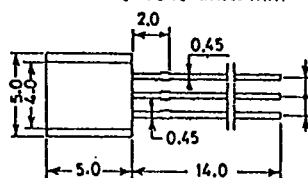
Case Outline—[2027A] unit: mm



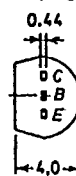
Case Outline—[2029A] unit: mm



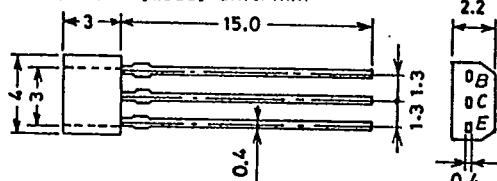
Case Outline—[2061] unit: mm



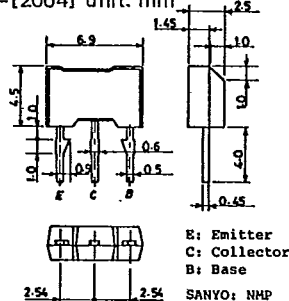
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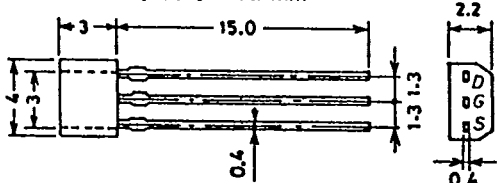
Case Outline—[2033] unit: mm



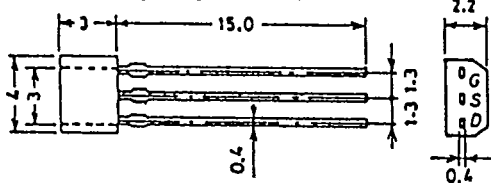
Case Outline—[2064] unit: mm



Case Outline—[2034] unit: mm



Case Outline—[2040] unit: mm



Case Outline—[2051] unit: mm

