



T-29-27

NPN Epitaxial Planar Silicon Composite Transistor

# **Differential Amp Applications**

€958B

### **Applications**

. Differential amp, current mirror, temperature compensator.

### Features

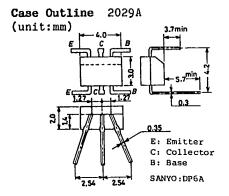
- . Excellent in thermal equilibrium and suited for use in differential amp applications.
- . Matched pair capability.

Absolute Maximum Ratings at Ta=	25 <sup>0</sup> C				unit
Collector to Base Voltage	55	V			
Cellector to Emitter Voltage	$v_{CEO}$			50	v
Emitter to Base Current	$v_{EBO}^{OBO}$			5	V
Collector Current	IC			150	mA
Peak Collector Current	icp			300	mA
Collector Dissipation	P <sub>C</sub>	1 unit		200	$\mathbf{m}\mathbf{W}$
Total Dissipation	$\mathbf{P_T^o}$			400	mW
Junction Temperature	ΤĴ			150	ос
Storage Temperature	Tstg		<del>-</del> 55	to +150	ос

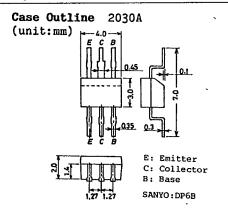
Electrical Characteristics at Collector Cutoff Current Emitter Cutoff Current DC Current Gain DC Current Gain Ratio	ICBO IEBO hre	V <sub>CB</sub> =35V, I <sub>E</sub> =0 V <sub>EB</sub> =4V, I <sub>C</sub> =0 V <sub>CE</sub> =6V, I <sub>C</sub> =1mA )V <sub>CE</sub> =6V, I <sub>C</sub> =1mA	min typ  100* 0.85 0.98	max 0.1 0.1 960*	unit uA uA
Base to Emitter Voltage Drop Collector to Emitter Saturation Voltage	VBE(large-small	VCE=6V,IC=1mA IC=50mA,IB=5mA	1.0	10 0.5	MV V
Gain-Bandwidth Product Output Capacitance	f <sub>T</sub> e <sub>ob</sub>	V <sub>CE</sub> =6V,I <sub>C</sub> =1mA V <sub>CB</sub> =10V,f=1MHz	100 2.5 Continued on	•	MHz pF page.

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

- 1												
	100	Ε	200	160	F	320	280	G	560	480	H	960



The 2SC3064 is provided with a surface mounted package.

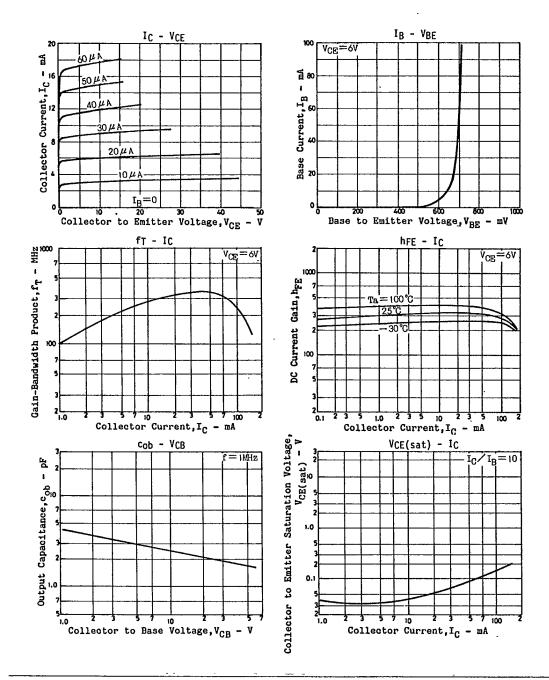


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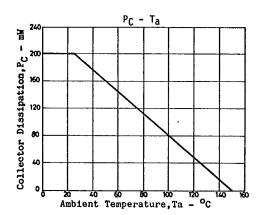
Voltage

	1 0 1 0 1						
Continued from preceding page.			 min	typ	max	unit	
Collector to Base Breakdown Voltage	V <sub>(BR)CBO</sub>	I <sub>C</sub> =10uA, I <sub>E</sub> =0	55		· ·	V	
Collector to Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	$I_{C}$ =1mA, $R_{BE}$ = $\infty$	50	-		V	
Emitter to Base Breakdown	V(BR)EBO	$I_E=10uA,I_C=0$	5			V	



2SC3064

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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 max. are represented by typical values.
- No marking is indicated.

