Panasonic Transistors

2SA2174G

Silicon PNP epitaxial planar type

For general amplification Complementary to 2SC6054G

■ Features

- \bullet High forward current transfer ratio h_{FE}
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

■ Absolute Maximum Ratings $T_a = 25$ °C

■ Features				■ Pack	age		
• High forward current transfer ratio h _{FE}		Code					
SS-Mini type package, allowing down	nsizing of the	equipment an	d automatic	SSMin	i3-F3		
insertion through the tape packing.	U	1 1				: 7L ᠺ	*
insertion through the tape paramig.				• Pin Na	g Symbol me	80°	
				● FIII Na	ille	11,	
■ Absolute Maximum Ratings T _a	= 25°C			1. Base 2. Emi			
	-	Doting	Unit	2. EIIII 3. Coll	eotor		
Parameter	Symbol	Rating	Offic	3. Con	CGIOI	•	
Collector-base voltage (Emitter open)	V_{CBO}	-60	V	42	. 40		
Collector-emitter voltage (Base open)	V _{CEO}	-50	V	6000	<i>9</i> ,	G·	
Emitter-base voltage (Collector open)	V_{EBO}	-7	V	of Just	, c	Ces	
Collector current	I_{C}	-100	SmA NO	2. Emi 3. Coll 3. Coll Call Call Call Call Call Call Call	o ^x		
Peak collector current	I _{CP}	-200	mA	140 ·	es		
Collector power dissipation	P _C	125	mW		y,		
Junction temperature	T _j	125	200	all			
Storage temperature	T _{stg}	−55 to+125	s °C	c ^X O			
		14,0	X	O			
•	10 VX	5, 76	-01				
■ Electrical Characteristics Ta	25°C±3°C	allo. e	. 20				
Parameter	7 Symb	ol co	Condition	ıs	Min	Тур	Ma
Collector-base voltage (Emitter open)	V _{CBC}	$I_{\rm C} = -101$	$IA, I_E = 0$		-60		
Collector-emitter voltage (Base open)	Vere		$A. I_{D} = 0$		-50		

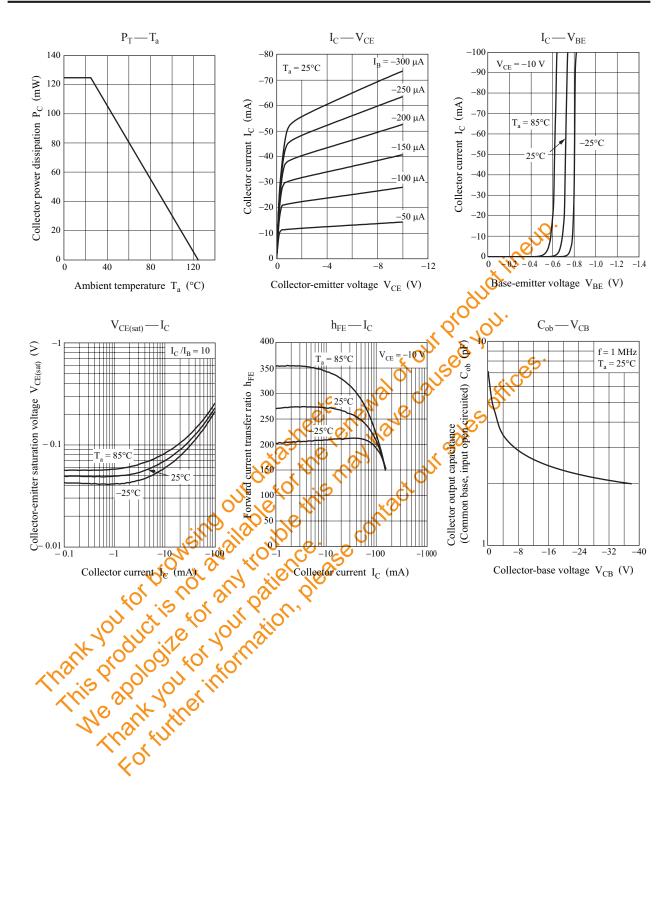
■ Electrical Characteristics T _a = 25°C±3°C											
Parameter	Symbol	Conditions	Min	Тур	Max	Unit					
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \mu{\rm A}, I_{\rm E} = 0$	-60			V					
Collector-emitter voltage (Base open)	VCEO	$I_C \rightarrow 2 \text{ mA}, I_B = 0$	-50			V					
Emitter-base voltage (Collector open)	VEBO	$I_{\rm E} = -10 \mu\text{A}, I_{\rm C} = 0$	-7			V					
Collector-base entoff current (Emitter open)	ICBO	$V_{CB} = -20 \text{ V}, I_{E} = 0$			-0.1	μΑ					
Collector-cruitter cutoff current (Base open)	Q_{CEO}	$V_{CE} = -10 \text{ V}, I_{B} = 0$			-100	μΑ					
Forward current transfer ratio	h_{FE}	$V_{CE} = -10 \text{ V}, I_{C} = -2 \text{ mA}$	160		460						
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -100 \text{ mA}, I_B = -10 \text{ mA}$		- 0.2	-0.5	V					
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz					
Collector output capacitance (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2.2		pF					

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

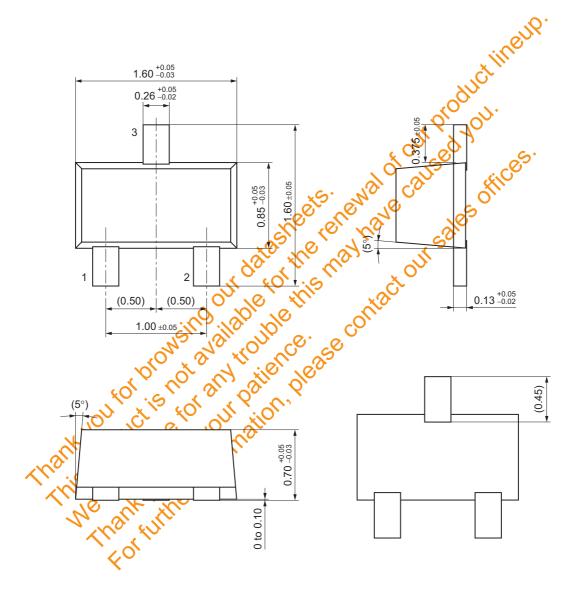
■ Package

1 SJC00386AED Publication date: May 2007

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