

Features

- High breakdown voltage ($V_{CEO} \geq 50V$).
- High current ($I_C = 500mA$).
- Low saturation voltage.

() : 2SA984

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

			unit
Collector-to-Base Voltage	V_{CBO}	(-) 60	V
Collector-to-Emitter Voltage	V_{CEO}	(-) 50	V
Emitter-to-Base Voltage	V_{EBO}	(-) 5	V
Collector Current	I_C	(-) 500	mA
Collector Current(Pulse)	I_{CP}	(-) 800	mA
Collector Dissipation	P_C	600	mW
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature	T_{stg}	-55 to $+150$	$^\circ C$

Electrical Characteristics at $T_a = 25^\circ C$

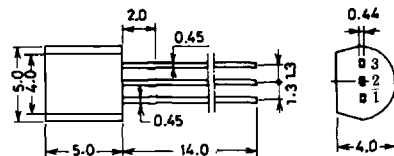
			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = (-)40V, I_E = 0$			(-) 1.0	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = (-)4V, I_C = 0$			(-) 1.0	μA
DC Current Gain	$h_{FE}(1)$	$V_{CE} = (-)5V, I_C = (-)50mA$	60^*		320^*	
	$h_{FE}(2)$	$V_{CE} = (-)5V, I_C = (-)400mA$, (pulse)	35			
Gain-Bandwidth Product	f_T	$V_{CE} = (-)10V, I_C = (-)10mA$		120		MHz
Output Capacitance	C_{ob}	$V_{CB} = (-)10V, f = 1MHz$		(9)		pF
				5		pF
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C = (-)400mA,$ $I_B = (-)40mA$	(-) 0.25	(-) 0.6		V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = (-)400mA, I_B = (-)40mA$	(-) 0.9	(-) 1.2		V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C = (-)10\mu A, I_E = 0$	(-) 60			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C = (-)1mA, R_{BE} = \infty$	(-) 50			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E = (-)10\mu A, I_C = 0$	(-) 5			V

* : The 2SA984/2SC2274 are classified by 50mA h_{FE} as follows:

60 D 120	100 E 200	160 F 320
----------	-----------	-----------

Case Outline 2003B

(unit: mm)



JEDEC: TO-92
EIAJ: SC-43
SANYO: NP

1: Emitter
2: Collector
3: Base

Specifications and information herein are subject to change without notice.

SANYO Electric Co., Ltd. Semiconductor Business Headquarters

70KYO OFFICE Tokyo Bldg. 1-10-1 Chome, Ueno, Taitoh-ku TOKYO 110 JAPAN



