
2SA1484

Silicon PNP Epitaxial

HITACHI

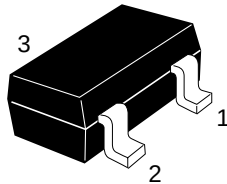
ADE-208-1019 (Z)
1st. Edition
Mar. 2001

Application

Low frequency amplifier

Outline

MPAK



- 1. Emitter
- 2. Base
- 3. Collector

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-90	V
Collector to emitter voltage	V_{CEO}	-90	V
Emitter to base voltage	V_{EBO}	-5	V
Collector current	I_C	-100	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

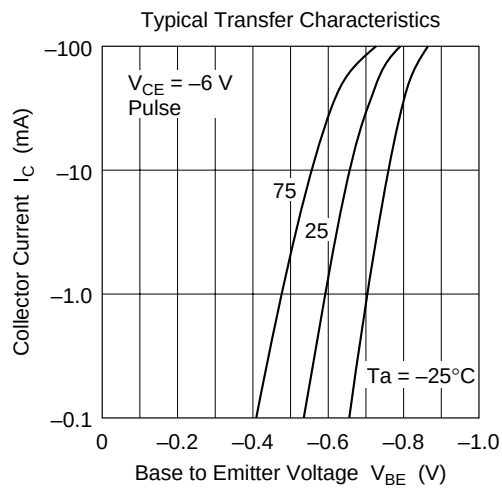
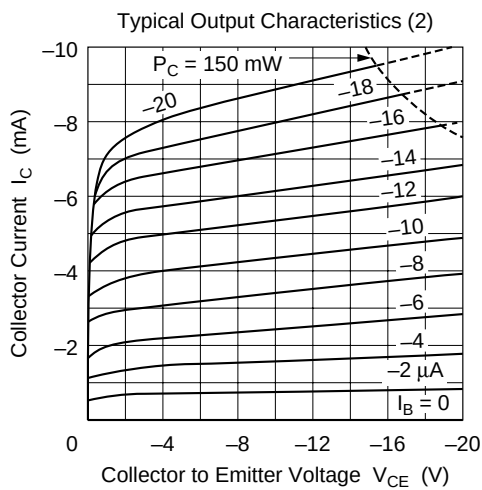
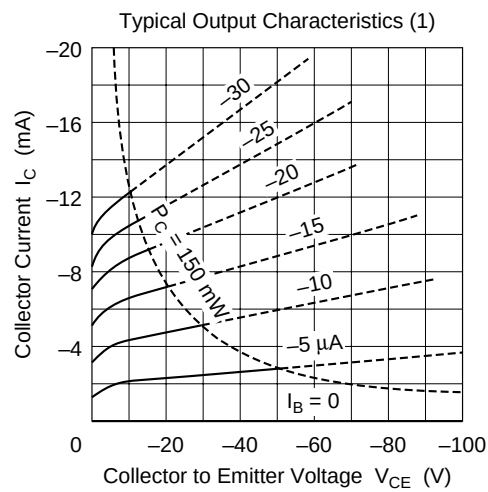
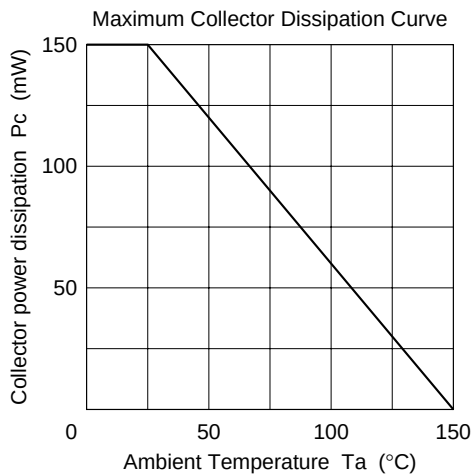
Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-90	—	—	V	$I_C = -10\text{ }\mu\text{A}$, $I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-90	—	—	V	$I_C = -1\text{ mA}$, $R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	-5	—	—	V	$I_E = -10\text{ }\mu\text{A}$, $I_C = 0$
Collector cutoff current	I_{CBO}	—	—	-0.1	μA	$V_{CB} = -70\text{ V}$, $I_E = 0$
Emitter cutoff current	I_{EBO}	—	—	-0.1	μA	$V_{EB} = -2\text{ V}$, $I_C = 0$
DC current transfer ratio	h_{FE}^{*1}	250	—	800		$V_{CE} = -12\text{ V}$, $I_C = -2\text{ mA}^{*2}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	-0.15	V	$I_C = -10\text{ mA}$, $I_B = -1\text{ mA}^{*2}$
Base to emitter saturation voltage	$V_{BE(sat)}$	—	—	-1.0	V	$I_C = -10\text{ mA}$, $I_B = -1\text{ mA}^{*2}$

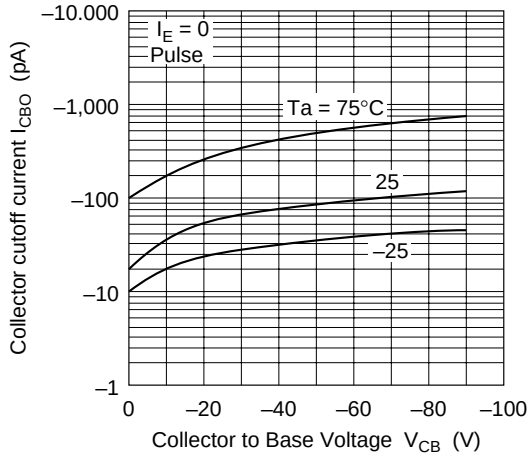
Notes: 1. The 2SA1484 is grouped by h_{FE} as follows.

2. Pulse test

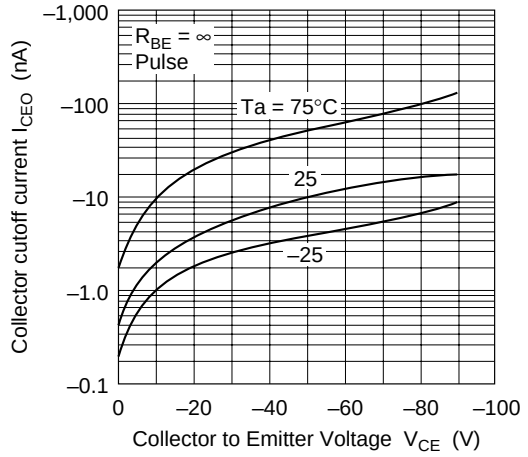
Grade	D	E
Mark	IRD	IRE
h_{FE}	250 to 500	400 to 800



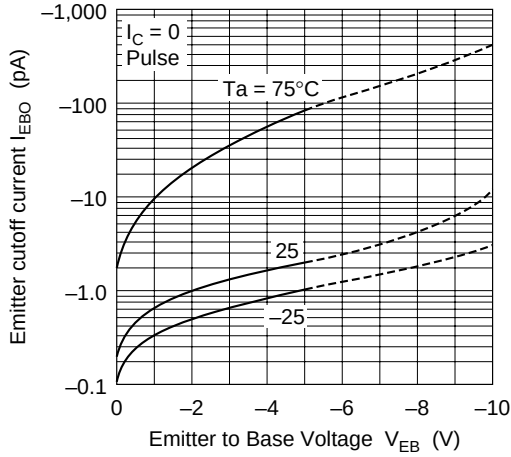
Collector Cutoff Current vs.
Collector to Base Voltage



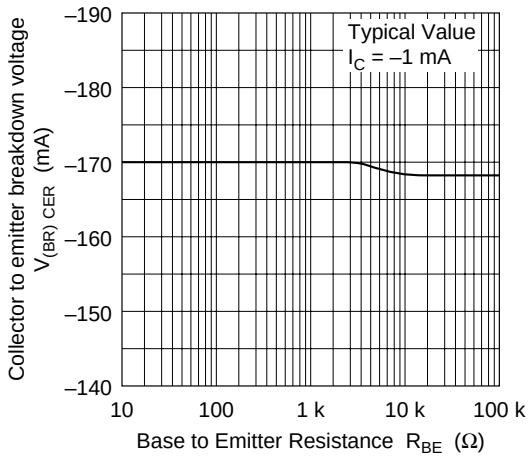
Collector Cutoff Current vs.
Collector to Emitter Voltage



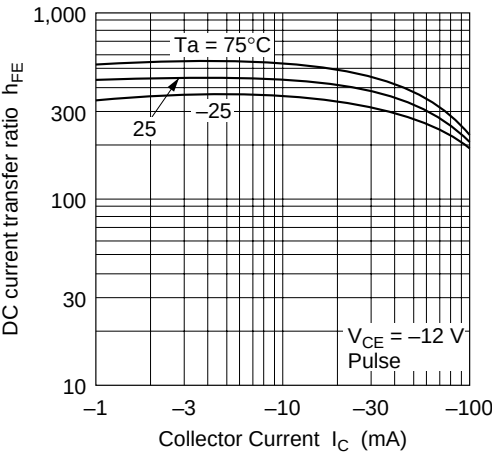
Emitter Cutoff Current vs.
Emitter to Base Voltage



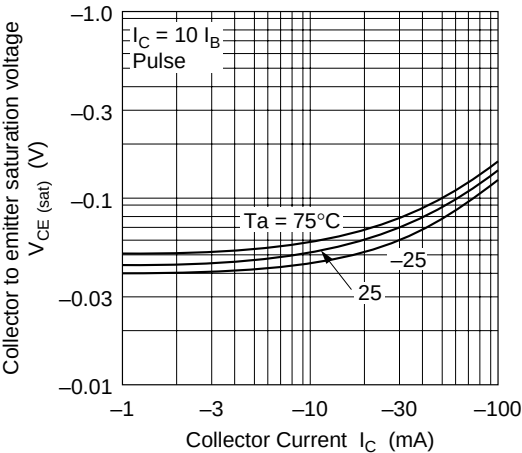
Collector to Emitter Breakdown Voltage vs.
Base to Emitter Resistance



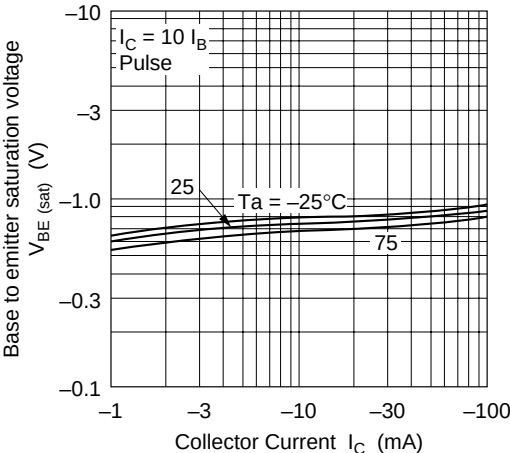
DC Current Transfer Ratio vs.
Collector Current



Collector to Emitter Saturation Voltage vs.
Collector Current

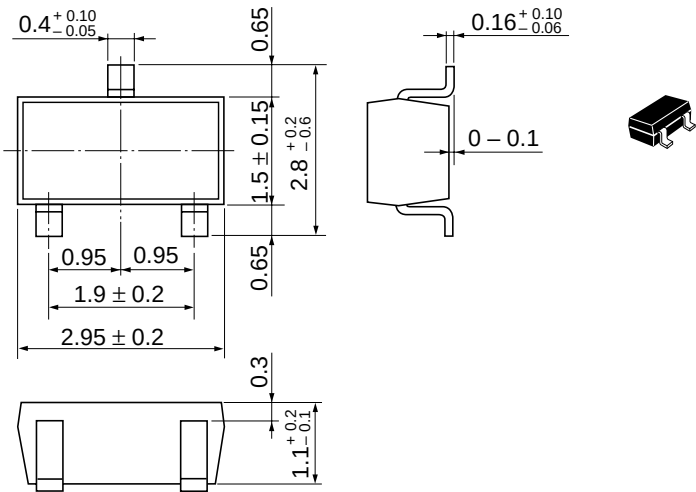


Base to Emitter Saturation Voltage vs.
Collector Current



Package Dimensions

As of January, 2001
Unit: mm



Hitachi Code	MPAK
JEDEC	—
EIAJ	Conforms
Mass (reference value)	0.011 g

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