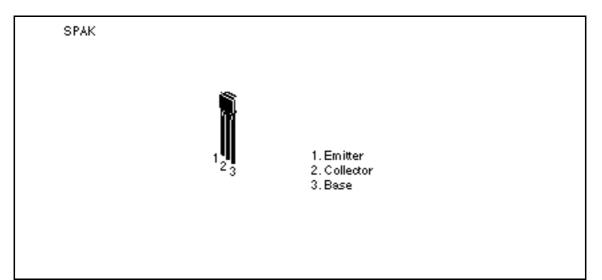
Silicon PNP Epitaxial

# HITACHI

#### Application

Low frequency amplifier

#### Outline





#### **Absolute Maximum Ratings** (Ta = $25^{\circ}$ C)

Item	Symbol	Ratings	Unit
Collector to base voltage	V <sub>CBO</sub>	-55	V
Collector to emitter voltage	V <sub>CEO</sub>	-55	V
Emitter to base voltage	V <sub>EBO</sub>	-5	V
Collector current	Ι <sub>c</sub>	-100	mA
Base current	I <sub>B</sub>	-30	mA
Collector power dissipation	Pc	300	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

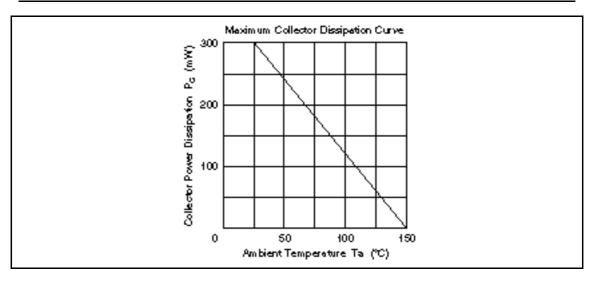
#### **Electrical Characteristics** (Ta = 25°C)

-55 -55 -5 	_ _ _ _	 	ν ν ν μΑ	$I_{c} = -10 \ \mu A, I_{E} = 0$ $I_{c} = -1 \ mA, R_{BE} =$ $I_{E} = -10 \ \mu A, I_{c} = 0$ $V_{CB} = -18 \ V, I_{E} = 0$
	_ _ _		V	$I_{\rm E} = -10 \ \mu \text{A}, \ I_{\rm C} = 0$
-5 	_ _			
_	_		μA	$V_{CB} = -18 \text{ V}, I_{E} = 0$
	_			
		-0.05	μΑ	$V_{EB} = -2 V, I_{E} = 0$
160		500		$V_{ce} = -12 \text{ V}, \text{ I}_{c} = -2 \text{ mA}$
_	-0.66	-0.75	V	$V_{ce} = -12 \text{ V}, \text{ I}_{c} = -2 \text{ mA}$
_	-0.1	-0.5	V	$I_{c} = -10 \text{ mA}, I_{B} = -1 \text{ mA}$
	250	_	MHz	$V_{ce} = -12 \text{ V}, \text{ I}_{c} = -2 \text{ mA}$
	2.5	—	pF	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$

C D

160 to 320 250 to 500

See characteristic curves of 2SA836.



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