2SA 1266
2SA 1266 Ⓛ

SILICON PNP TRANSISTOR
EPITAXIAL PLANAR TYPE (PCT PROCESS)

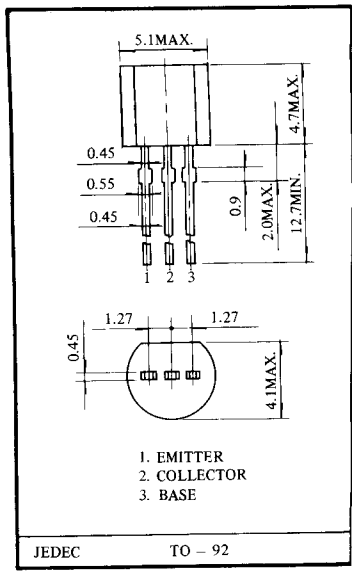
APPLICATIONS

- Low Frequency Amplifier
- Low Noise Amplifier

FEATURES

- Excellent h_{FE} Linearity, $h_{FE}(0.1mA)/h_{FE}(2mA) = 0.95$ (Typ.)
- Excellent Safe Operation Area
- Low Noise 2SA1266 NF = 1dB (TYP), 10dB (Max.)
  2SA1266Ⓛ NF = 0.2dB (TYP), 3dB (Max.)
- Complementary to the 2SC3198/2SC3198Ⓛ

Unit in mm



JEDEC TO-92

■ MAXIMUM RATINGS (Ta = 25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	−50	V
Collector-Emitter Voltage	V_{CEO}	−50	V
Emitter-Base Voltage	V_{EBO}	−5	V
Collector Current	I_C	−150	mA

CHARACTERISTIC	SYMBOL	RATING	UNIT
Emitter Current	I_E	150	mA
Collector Power Dissipation	P_C	400	mW
Junction Temperature	T_j	125	℃
Storage Temperature Range	T_{stg}	−55~125	℃

■ ELECTRICAL CHARACTERISTICS (Ta = 25℃)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut off Current		I_{CBO}	V_{CB} = −50V, I_E = 0	−	−	−0.1	μA
Emitter Cut off Current		I_{EBO}	V_{EB} = −5V, I_C	−	−	−0.1	μA
DC Current Gain (1)		$h_{FE(1)}$	V_{CE} = −6V, I_C = −2mA	70	−	400	-
DC Current Gain (2)		$h_{FE(2)}$	V_{CE} = −6V, I_C = −150mA	25	−	−	-
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	I_C = −100mA, I_B = −10mA	−	−0.1	−0.3	V
Base-Emitter Saturation Voltage		$V_{BE(sat)}$	I_C = −100mA, I_B = −10mA	−	−	−1.1	V
Transition Frequency		f_T	V_{CE} = −10V, I_E = 1mA	80	−	−	MHz
Output Capacitance		C_{ob}	V_{CB} = −10V, I_C = 0, f = 1MHz	−	4	7	pF
Base Spreading Resistance		$r_{bb'}$	V_{CB} = −10V, I_C = −1mA, f = 30MHz	−	30	−	Ω
Noise Figure	2SA1266	NF	V_{CE} = −6V, I_C = 0.1mA	−	1.0	10	dB
	2SA1266Ⓛ		Rg = 10kΩ, f = 1KHz	−	0.2	3	

■ NOTE: According to h_{FE} (1), Classified as follows

O	70−140	Y	120~240	GR	200~400

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