Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: http://www.renesas.com

April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)
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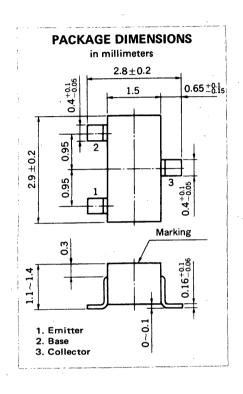
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silicon transistor 2SC1622A

AUDIO FREQUENCY HIGH GAIN AMPLIFIER NPN SILICON EPITAXIAL TRANSISTOR MINI MOLD



FEATURE

• High DC Current Gain: hFE = 600 TYP. (VCE = 6.0 V, IC = 1.0 mA)

ABSOLUTE MAXIMUM RATINGS

Maximum Voltages and Current (T _a = 25°C)			
Collector to Base Voltage	V _{CBO}	120	٧
Collector to Emitter Voltage	V _{CEO}	120	٧
Emitter to Base Voltage	V_{EBO}	5.0	٧
Collector Current (DC)	Ic	50	mΑ
Maximum Power Dissipation			
Total Power Dissipation			
at 25 °C Ambient Temperature	PT	200	mW
Maximum Temperatures			
Junction Temperature	T_{j}	150	°C
Storage Temperature Range	T_{stg}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (T_a = 25 °C)

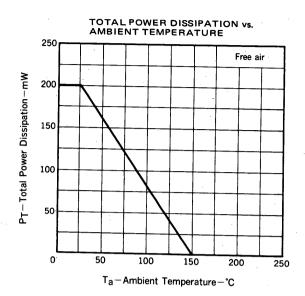
CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector Cutoff Current	СВО			0.05	μА	V _{CB} = 120 V, I _E = 0
Emitter Cutoff Current	IEBO			0.05	μА	V _{EB} = 5.0 V, I _C = 0
DC Current Gain	hFE1	100				V _{CE} = 6.0 V, I _C = 0.1 mA
DC Current Gain	hFE2	135	500	900		V _{CE} = 6.0 V, I _C = 1.0 mA*
Collector Saturation Voltage	V _{CE(sat)}		0.07	0.30	V	I _C = 10 mA, I _B = 1.0 mA
Base to Emitter Voltage	V _{BE}	0.55	0.58	0.65	V	$V_{CE} = 6.0 \text{ V, I}_{C} = 1.0 \text{ mA}$
Gain Bandwidth Product	fT	50	110		MHz	VCE =6.0 V, IE = -1.0 mA
Output Capacitance	Cob		1.6	2.5	pF	V _{CB} = 30 V, I _E = 0, f = 1.0 MHz

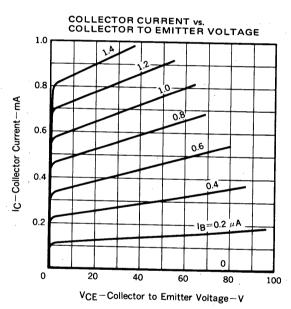
^{*} Pulsed: PW \leq 350 μ s, Duty Cycle \leq 2 %

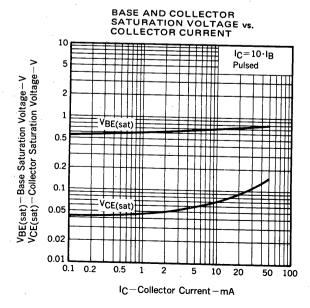
hee Classification

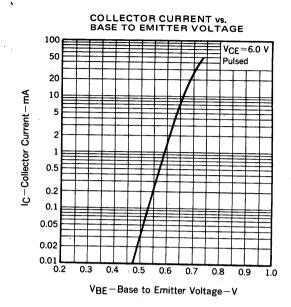
TIFE CIGSSITION					
Marking	D15	D16 D17		D18	
hFE2	135 to 270	200 to 400	300 to 600	450 to 900	

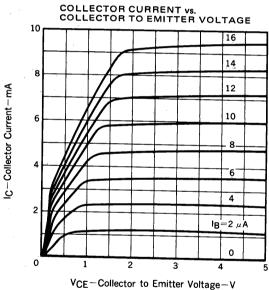
TYPICAL CHARACTERISTICS (T_a = 25 °C)

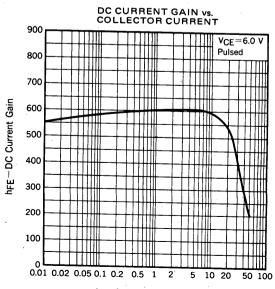


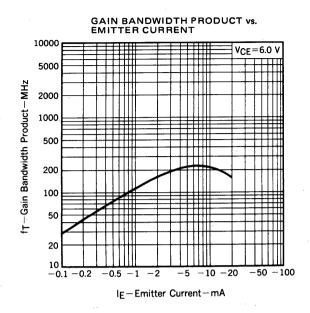


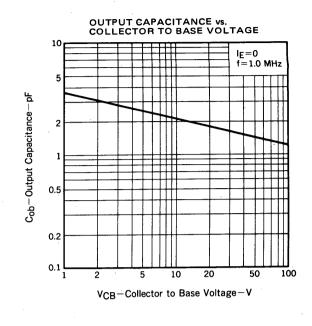












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