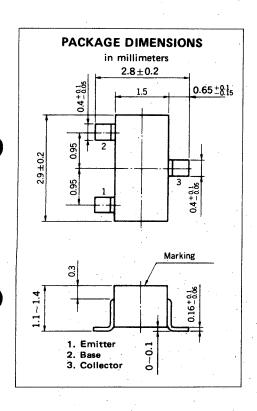


SILICON TRANSISTOR 2SD596

AUDIO FREQUENCY POWER AMPLIFIER NPN SILICON EPITAXIAL TRANSISTOR MINI MOLD



DESCRIPTION

The 2SD596 is designed for use in small type equipments especially recommended for hybrid integrated circuit and other applications.

FEATURES

- Micro package.
- High DC current gain. h_{FE} : 200 TYP. ($V_{CE} = 1.0 \text{ V}$, $I_{C} = 100 \text{ mA}$)
- Complimentary to NEC 2SB624 PNP Transistor.

ABSOLUTE MAXIMUM RATINGS

$T_A = 25 ^{\circ}C)$		
V_{CBO}	30	V
e V _{CEO}	25	V
V_{EBO}	5.0	V
I _C	700	mΑ
nperature PT	200	mW
T _{stg}	-55 to +150	°C
nture T _j	150	°C
	e V _{CEO} V _{EBO} I _C	V _{CBO} 30 V _{CEO} 25 V _{EBO} 5.0 I _C 700 Numberature P _T 200 T _{stg} -55 to +150

ELECTRICAL CHARACTERISTICS (T_A = 25 °C)

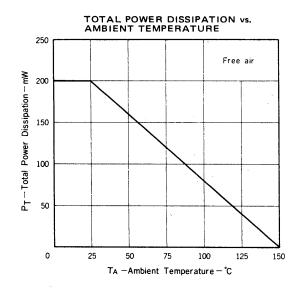
CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector Cutoff Current	ICBO			100	nA	V _{CB} = 30 V, I _E = 0
Emitter Cutoff Current	^I EBO			100	nA	V _{EB} = 5.0 V, I _C = 0
DC Current Gain	hFE1	110	200	400		V _{CE} = 1.0 V, I _C = 100 mA *
DC Current Gain	,hFE2	50				V _{CE} = 1.0 V, I _C = 700 mA *
Base to Emitter Voltage	V _{BE}	600	640	700	mV	V _{CE} = 6.0 V, I _C = 10 mA *
Collector Saturation Voltage	V _{CE(sat)}		0.22	0.6	V	I _C = 700 mA, I _B = 70 mA *
Output Capacitance	C _{ob}		12	3.5 %	рF	V _{CB} = 6.0 V, I _E = 0, f = 10 MHz
Gain Bandwidth Product	fr		170		MHz	V _{CE} = 6.0 V, I _E = -10 mA

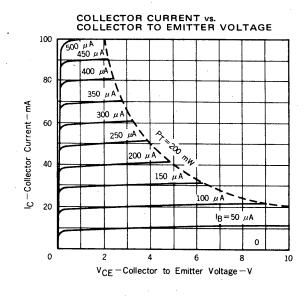
^{*} Pulsed: PW \leq 350 μ s, Duty Cycle \leq 2 %

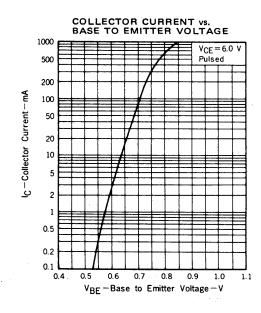
hFE1 Classification

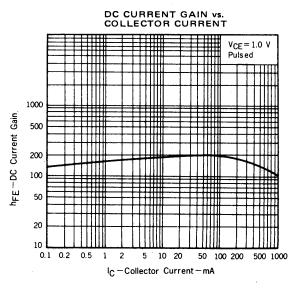
Marking	DV1	DV2	DV3	DV4	DV5
hFE	110 to 180	135 to 220	.170 to 270.	200 to 320	250 to 400

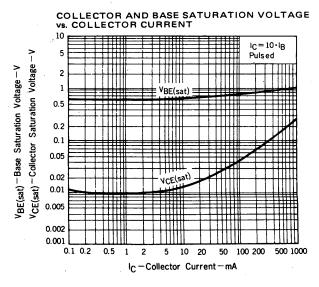
TYPICAL CHARACTERISTICS (TA = 25 °C)

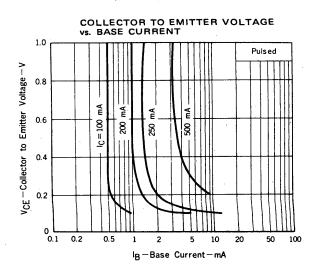


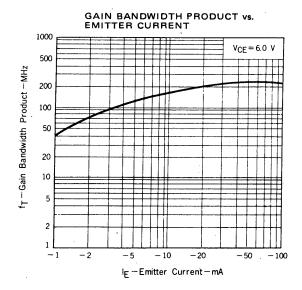


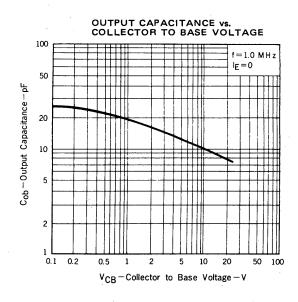












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for life support)

Specific: Aircrafts, aerospace equipment, submersible repeaters, nuclear reactor control systems, life

support systems or medical equipment for life support, etc.

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Anti-radioactive design is not implemented in this product.

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