

Silicon PNP Power Transistors

2SA1262

DESCRIPTION

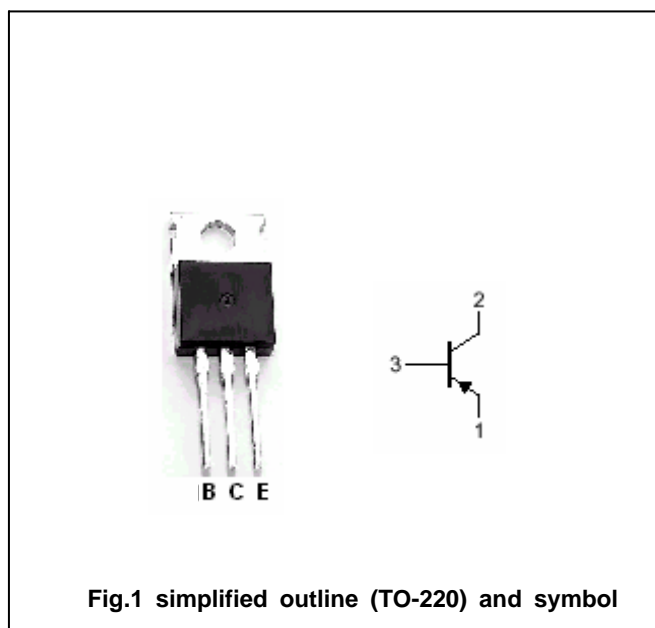
- With TO-220 package
- Complement to type 2SC3179

APPLICATIONS

- Audio and general purpose

PINNING

PIN	DESCRIPTION
1	Emitter
2	Collector;connected to mounting base
3	Base

Absolute maximum ratings($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-60	V
V_{CEO}	Collector-emitter voltage	Open base	-60	V
V_{EBO}	Emitter-base voltage	Open collector	-6	V
I_C	Collector current		-4	A
I_B	Base current		-1	A
P_C	Collector power dissipation	$T_C=25^\circ\text{C}$	30	W
T_j	Junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-55~150	$^\circ\text{C}$

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CHARACTERISTICS

T_j=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-25mA, I _B =0	-60			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-2A; I _B =-0.2A			-0.6	V
I _{CBO}	Collector cut-off current	V _{CB} =-60V; I _E =0			-100	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =-6V; I _C =0			-100	μ A
h _{FE}	DC current gain	I _C =-1A; V _{CE} =-4V	40			
f _T	Transition frequency	I _E =0.2A; V _{CE} =-12V		15		MHz
C _{ob}	Output capacitance	I _E =0; V _{CB} =-10V; f=1MHz		90		pF

Switching times

t _{on}	Turn-on time	I _C =-2A; I _{B1} =- I _{B2} =-0.2A R _L =10 Ω; V _{CC} =-20V		0.25		μ s
t _s	Storage time			0.75		μ s
t _f	Fall time			0.25		μ s

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PACKAGE OUTLINE

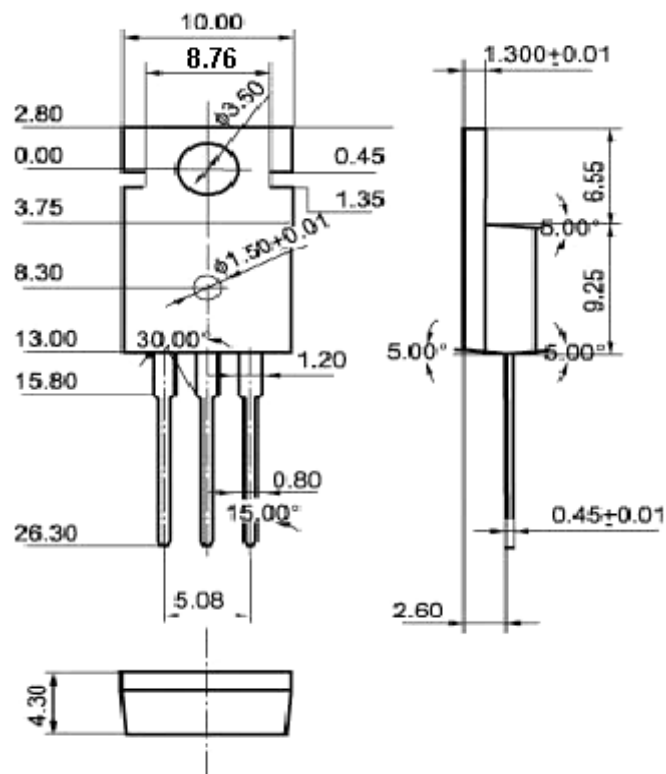


Fig.2 Outline dimensions(unindicated tolerance: ±0.10 mm)

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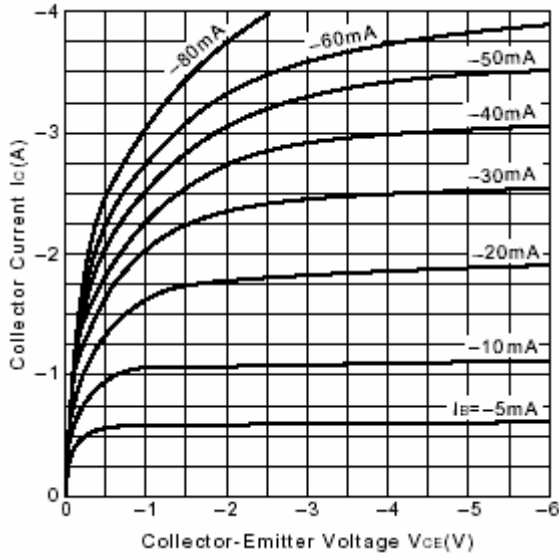


Fig.3 Static Characteristic

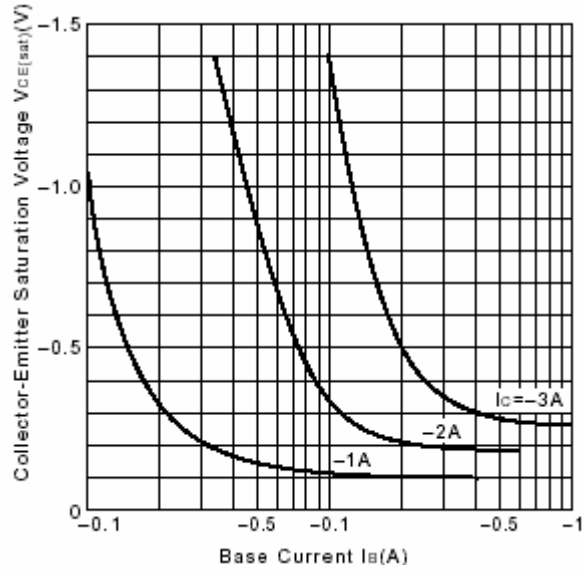


Fig.4 $V_{ce(sat)}-I_b$ Characteristics

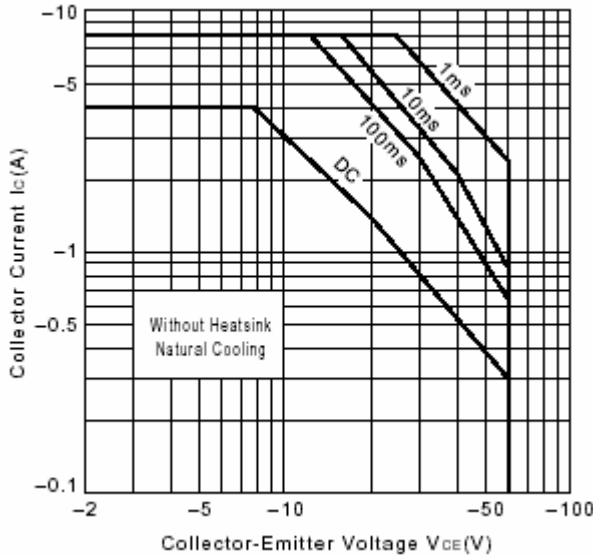


Fig.5 Safe Operating Area

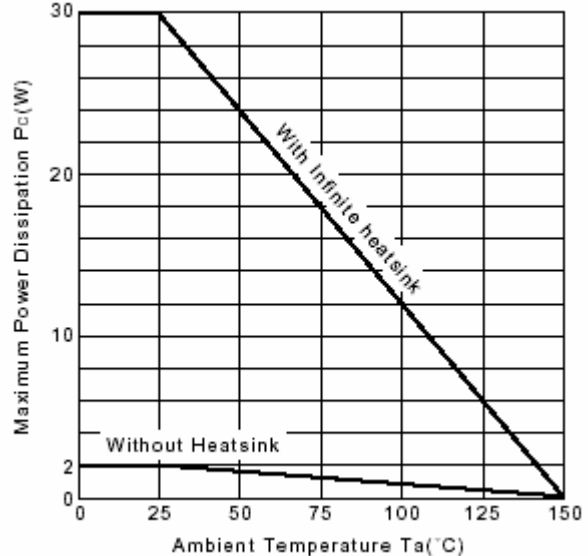


Fig.6 P_c-T_a Derating

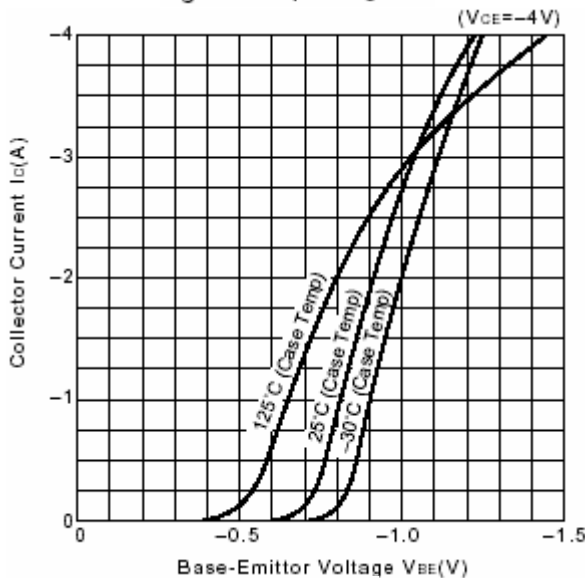


Fig.7 I_c-V_{BE}

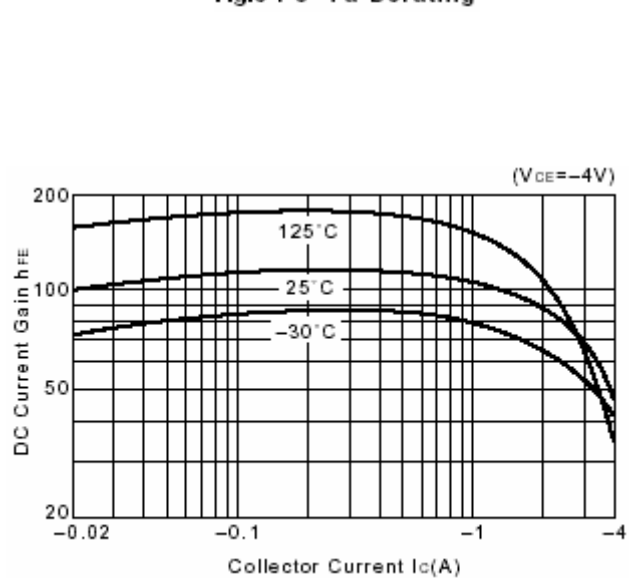


Fig.8 DC current Gain