

Silicon PNP Power Transistors

2SA1643

DESCRIPTION

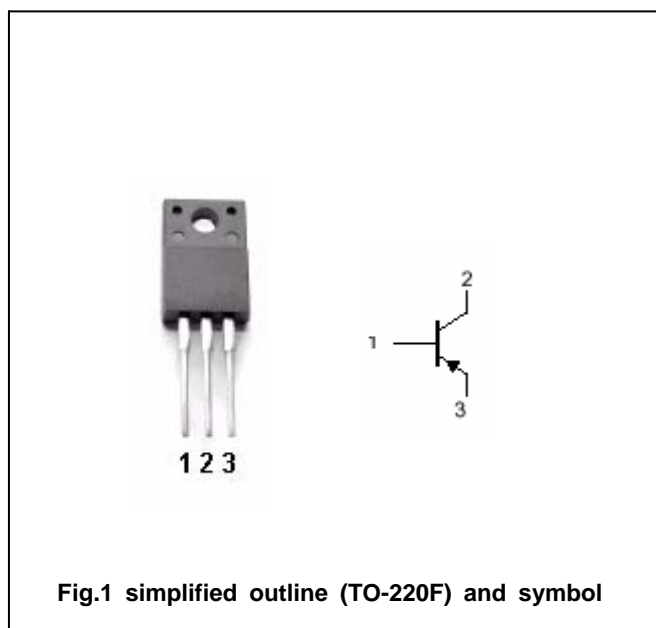
- With TO-220F package
- Complement to type 2SC4327
- Low collector saturation voltage

APPLICATIONS

- For power switching applications

PINNING

PIN	DESCRIPTION
1	Base
2	Collector
3	Emitter



Absolute maximum ratings (Ta=25°C)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-50	V
V_{CEO}	Collector-emitter voltage	Open base	-35	V
V_{EBO}	Emitter-base voltage	Open collector	-7	V
I_C	Collector current		-7	A
P_C	Collector dissipation	$T_C=25^\circ\text{C}$	25	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	-80			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-1mA ; I _C =0	-7			V
V _{CEsat}	Collector-emitter saturation voltage	I _C =-5A ; I _B =-0.3A			-0.5	V
I _{CBO}	Collector cut-off current	V _{CB} =-50V ; I _E =0			-10	μ A
I _{EBO}	Emitter cut-off current	V _{EB} =-7V ; I _C =0			-10	μ A
h _{FE}	DC current gain	I _C =-5A ; V _{CE} =-2V	50			
f _T	Transition frequency	I _E =1A ; V _{CE} =-12V		75		MHz

