

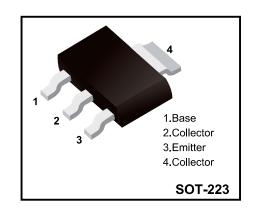
PNP Plastic-Encapsulate Transistors

Applications

- ♦Audio power amplifier
- **♦**DC-DC convertor
- ♦Voltage regulator

Features

- ♦Low saturation voltage
- ♦High current output up to -3A
- ♦Complement to FZT882



Absolute Maximum Rating (Ta=25℃)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	BV _{CBO}	-40	V
Collector-Emitter Voltage	BV _{CEO}	-30	V
Emitter-Base Voltage	BV _{EBO}	-6	V
Collector Current	Ic	-3	Α
Collector Power Dissipation	P _C	1.25	W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	- 55∼150	°C

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	BV _{CBO}	$I_C = -100 \mu A, I_E = 0$	-40			٧
Collector-emitter breakdown voltage	BV _{CEO}	$I_C = -10 \text{mA}, I_B = 0$	-30			٧
Emitter-base breakdown voltage	BV _{EBO}	$I_E = -100 \mu A, I_C = 0$	-5			V
Collector cut-off current	I _{CBO}	$V_{CB} = -40V, I_{E} = 0$			-10	μΑ
Emitter cut-off current	I _{EBO}	$V_{EB} = -5V, I_{C} = 0$			-10	μΑ
DC aureaut anim	h _{FE} 1	V _{CE} = -2V, I _B = -20mA	50			
DC current gain	h _{FE} 2	V _{CE} = -2V, I _B = -1A	100		400	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -2A, I_B = -0.2A$			-0.5	٧
Base -emitter saturation voltage	V _{BE(sat)}	$I_C = -2A$, $I_B = -0.2A$			-2.0	V
Transition frequency	f _T	$V_{CE} = -5V, I_{B} = -0.1A$	50			MHz

Note *Pulse Test: PW ≤ 350µs, Duty Cycle ≤ 2%

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hFE Classification

Classification	Q	Р	E
hFE	100-200	160-320	200-400



Typical Characteristics

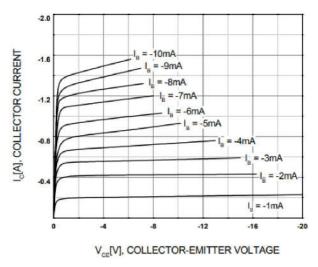


Figure 1. Static Characteristic

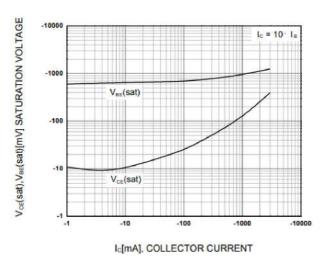


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

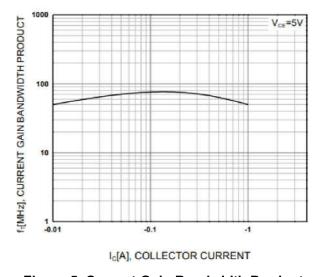


Figure 5. Current Gain Bandwidth Product

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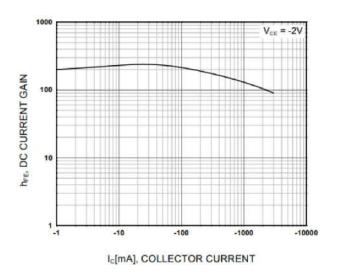


Figure 2. DC current Gain

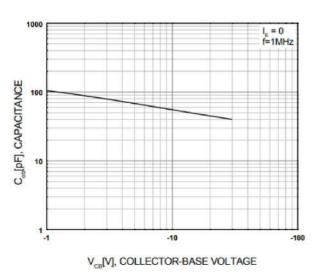


Figure 4. Collector Output Capacitance

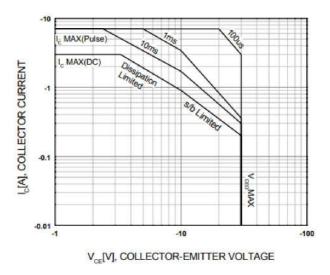


Figure 6. Power Derating

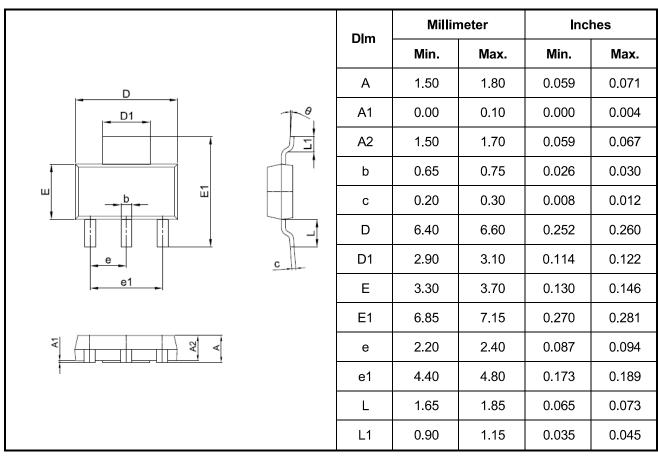


Ordering information

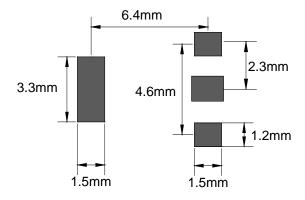
Package	Packing Description	Base Quantity	Packing Quantity
SOT-223	Tape/Reel,7"reel	1000pcs/Reel	6000PCS/Box 30000PCS/Carton
	Tape/Reel,13"reel	2500pcs/Reel	5000PCS/Box 30000PCS/Carton

Package Dimensions

SOT-223



The recommended mounting pad size



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