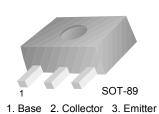
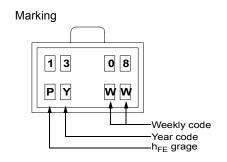


FJC1308 PNP Epitaxial Silicon Transistor

Audio Power Amplifier Applications

- Complement to FJC1963
- · High Collector Current
- Low Collector-Emitter Saturation Voltage





Absolute Maximum Ratings T_C = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-30	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current (DC)	-3	A
P _C	Power Dissipation(T _C =25°C)	0.5	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C = 25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = -50\mu A, I_E = 0$	-30		V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA, I _B = 0	-30		V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = -50\mu A, I_C = 0$	-6		V
I _{CEO}	Collector Cut-off Current	V _{CE} = -20V, V _B = 0		-0.5	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_C = 0$		-0.5	μΑ
h _{FE}	DC Current Gain	$V_{CE} = -2V, I_{C} = -0.5A$	80	390	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =-1.5, I _B = -0.15A		-0.45	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -1.5, I _B = -0.15A		-1.5	V

h_{FE} Classification

Classification	Р	Q	R
h _{FE}	80 ~ 180	120 ~ 270	180 ~ 390

Package Marking and Ordering Information

Device Marking	Device	Package	Reel Size	Tape Width	Quantity
1308	FJC1308	SOT-89	13"		4,000

Typical Performance Characteristics

Figure 1. Static Characteristic

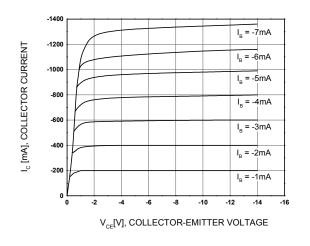


Figure 2. DC Current Gain

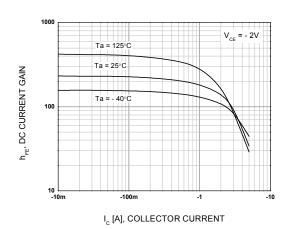


Figure 3. Collector-Emitter Saturation Voltage

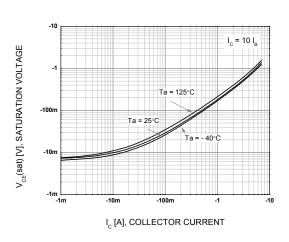


Figure 4. Base-Emitter Saturation Voltage

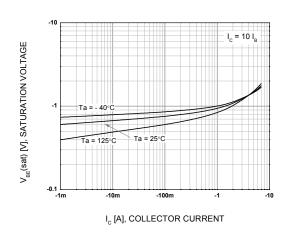


Figure 5. Base-Emitter On Voltage

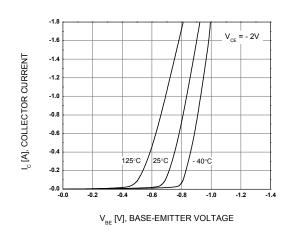
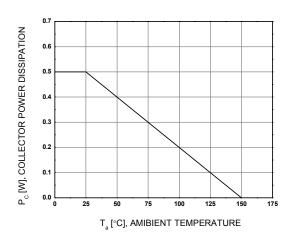


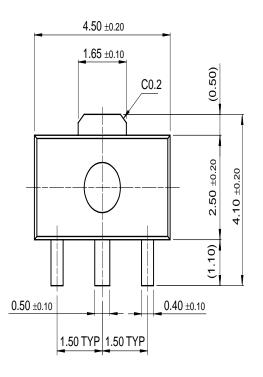
Figure 6. Power Derating

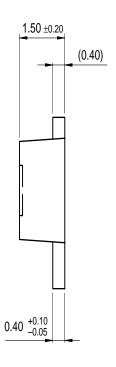


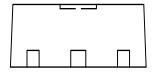
3 www.fairchildsemi.com

Mechanical Dimensions

SOT-89







Dimensions in Millimeters

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SuperSOT™-3

SuperSOT™-6

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

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