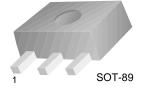


FJC1386

Low Saturation Transistor Medium Power Amplifier

- Complement to FJC2098
- High Collector Current
- Low Collector-Emitter Saturation Voltage



1. Base 2. Collector 3. Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-30	V
V _{CEO}	Collector-Emitter Voltage	-20	V
V _{EBO}	Emitter-Base Voltage	-6	V
I _C	Collector Current (DC)	-5	Α
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

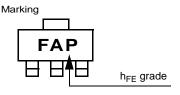
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =-50μA, I _E =0	-30			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =-1mA, I _B =0	-20			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =-50μA, I _C =0	-6			V
I _{CBO}	Collector Cut-off Current	V _{CB} =-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 =-4, I _B =-0.1A			-1.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =-4, I _B =-0.1A			-1.5	V

Thermal Characteristics $T_C=25$ °C unless otherwise noted

Symbol	Parameter	Max	Units
$R_{\theta jA}$	Thermal Resistance, Junction to Ambient		°C/W

h_{FE} Classification

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



Typical Characteristics

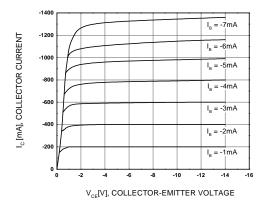


Figure 1. Static Characteristic

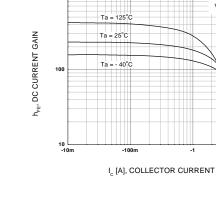


Figure 2. DC current Gain

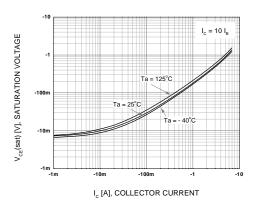


Figure 3. Collector-Emitter Saturation Voltage

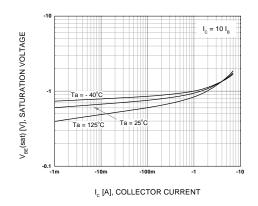


Figure 4. Base-Emitter Saturation Voltage

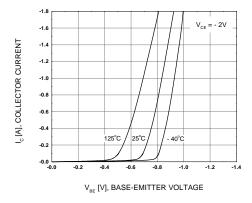


Figure 5. Base-Emitter On Voltage

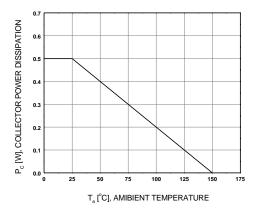
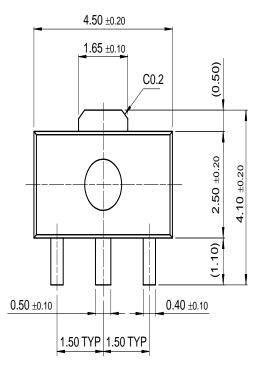
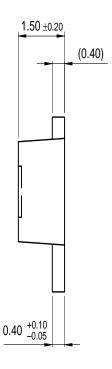


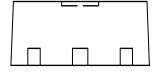
Figure 6. Power Derating

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SOT-89







Dimensions in Millimeters

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CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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EcoSPARK™	GTO™	MSX™	QT Optoelectronics™	TinyLogic™
E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I^2C^{TM}	OCX^{TM}	RapidConfigure™	UHC™
Across the board.	. Around the world.™	OCXPro™	RapidConnect™	UltraFET [®]
The Power Franc	hise™	OPTOLOGIC [®]	SILENT SWITCHER®	VCX^{TM}
Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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