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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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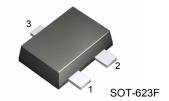




FJZ945

Audio Frequency Amplifier & High Frequency OSC.

- Complement to FJZ733
- Collector-Base Voltage : V_{CBO}=60V
- High Current Gain Bandwidth Product : f_T=300MHz (Typ.)



1. Base 2. Emitter 3. Collector

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	150	mA
P _C	Collector Power Dissipation	100	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{C}=100\mu A, I_{E}=0$	60			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA, I _B =0	50			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{E}=10\mu A, I_{C}=0$	5			V
I _{CBO}	Collector Cut-off Current	$V_{CB}=40V$, $I_{E}=0$			0.1	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB}=3V$, $I_{C}=0$			0.1	μΑ
h _{FE}	DC Current Gain	$V_{CE}=6V, I_{C}=1.0mA$	70		700	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =100mA, I _B =10mA		0.15	0.3	V
f _T	Current Gain Bandwidth Product	V _{CE} =6V, I _C =10mA		300		MHz
C _{ob}	Output Capacitance	V _{CB} =6V, I _E =0, f=1MHz		2.5		pF
NF	Noise Figure	V_{CE} =6V, I_{C} =0.5mA f=1KHz, R_{S} =500 Ω		4.0		dB

Thermal Characteristics $T_{C}=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Max.	Units
$R_{\theta,JA}$	Thermal Resistance, Junction to Ambient	1250	°C/W

h_{FE} Classification & Marking

Classification	0	Υ	G	L
h _{FE}	70 ~ 140	120 ~ 240	200 ~ 400	350 ~ 700
Marking	C3	C1	C4	C5



Typical Characteristics

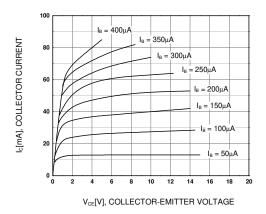


Figure 1. Static Characteristic

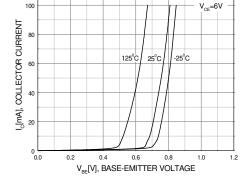


Figure 2. Transfer Characteristic

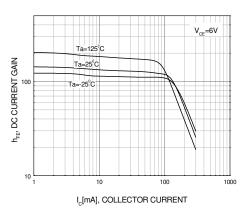


Figure 3. DC Current Gain

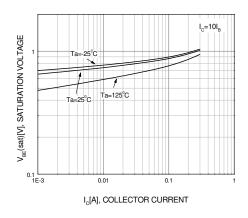


Figure 4. Base-Emitter Saturation Voltage

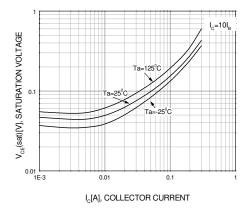


Figure 5. Collector-Emitter Saturation Voltage

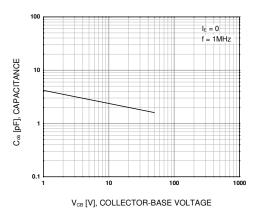


Figure 6. Output Capacitance

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Typical Characteristics (Continued)

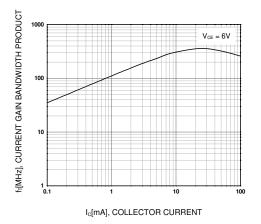
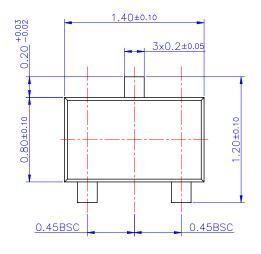
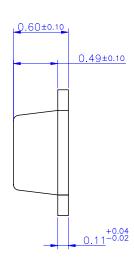


Figure 7. Current Gain Bandwidth Product

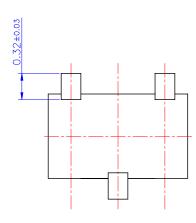
Package Dimensions

SOT-623F









Dimensions in Millimeters

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