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SEMICONDUCTOR®

FJV992

Audio Frequency Low Noise Amplifier

• Complement to FJV1845



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

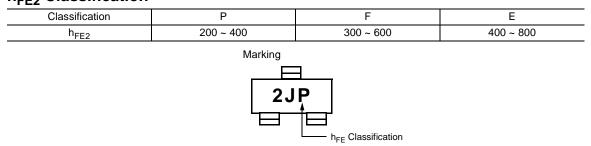
Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-120	V
V _{CEO}	Collector-Emitter Voltage	-120	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-50	mA
P _C	Collector Power Dissipation	300	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics Ta=25°C unless otherwise noted

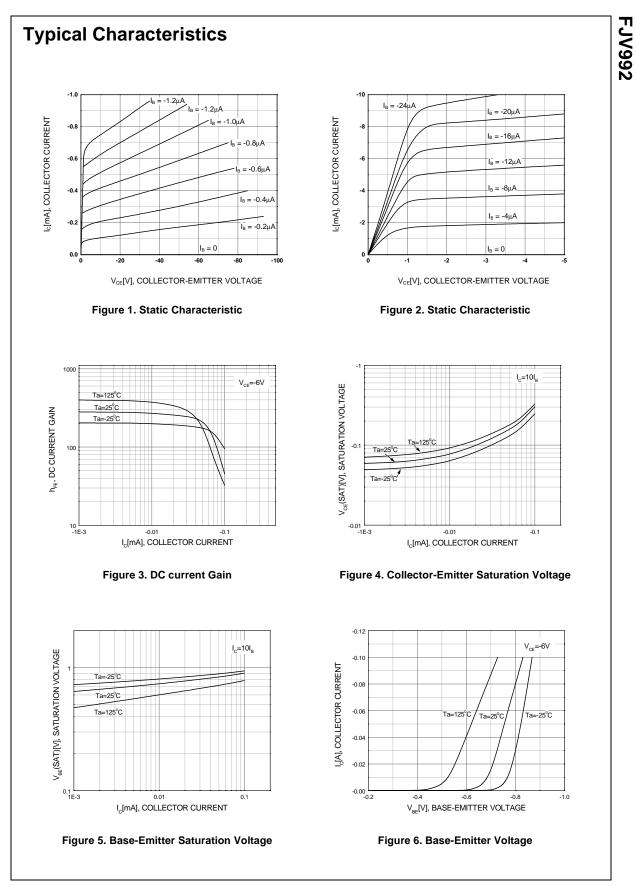
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{\rm C} = -100 \mu {\rm A}, \ I_{\rm E} = 0$	-120		V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -1mA, I _B =0	-120		V
BV _{EBO}	Emitter-Emitter Breakdown Voltage	$I_{E} = -10\mu A, I_{C} = 0$	-5		V
I _{EBO}	Emitter-Base Cutoff Current	$V_{EB} = -6V, I_{C} = 0$		-30	nA
h _{FE1}	DC Current Gain	$V_{CE} = -6V, I_{C} = -0.1mA$	150		
h _{FE2}		$V_{CE} = -6V, I_{C} = -1mA$	200	800	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -10mA, I _B = -1mA		-300	mV
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = -6V, I_{C} = -1mA$	-0.55	-0.65	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -6V, I_{C} = -1mA$	50		MHz
C _{ob}	Output Capacitance	$V_{CB} = -30V$, $I_E=0$, f=1MHz		3	pF
NV	Noise Voltage	$V_{CE} = -5.0V, I_C = -1.0mA,$ $R_G = 100KW, G_V = 80dB,$ f = 10Hz to 1.0KHz		40	mV

h_{FE2} Classification



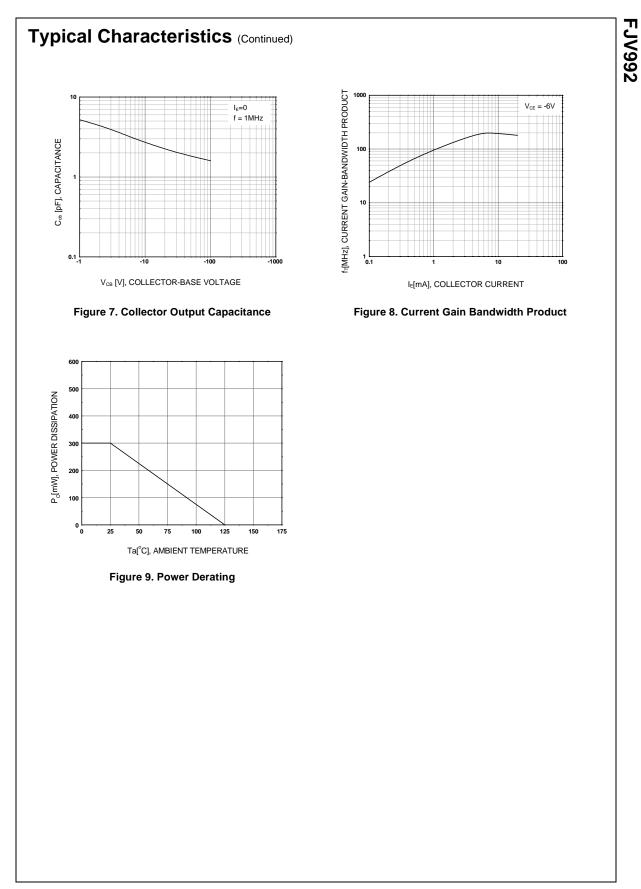
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FJV992



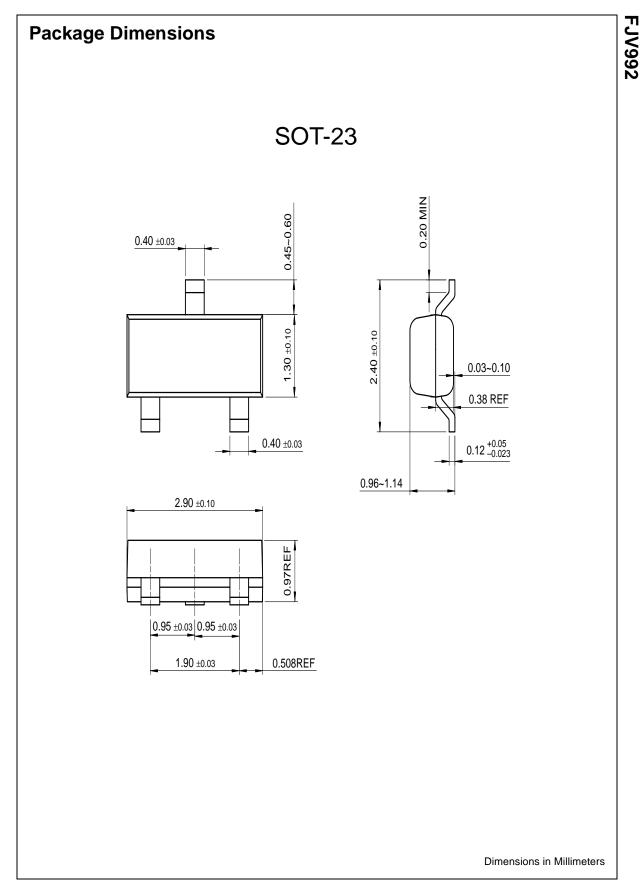
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