FJZ733

FAIRCHILD

SEMICONDUCTOR®

FJZ733

Low Frequency Amplifier Collector-Base Voltage : V_{CBO}= -60V Complement to FJZ945



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=25°C unless otherwise noted

Symbol	Parameter	Ratings	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

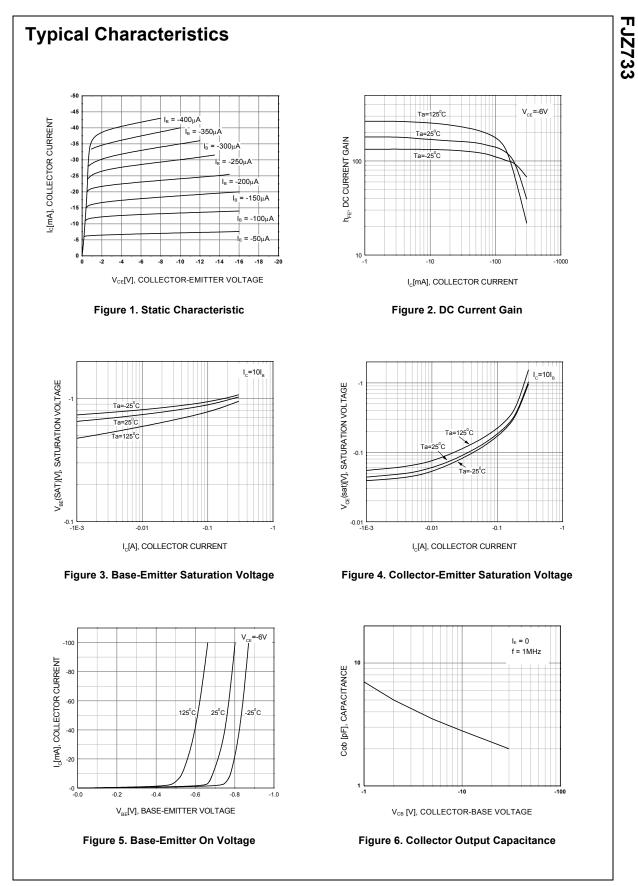
Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, 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 = -10μΑ. I _C =0	- 5			V
I _{CBO}	Collector Cut-off Current	V _{CB} =60V, I _E =0			-100	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -5V, I _C =0			-100	nA
h _{FE}	DC Current Gain	V _{CE} = -6V, I _C = -1mA	40		700	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -100mA, I _B = -10mA		-0.18	-0.3	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -6V, I _C = -1mA	-0.50	-0.62	-0.80	V
f _T	Current Gain Bandwidth Product	V _{CE} = -6V, I _C = -10mA	50	180		MHz
Cob	Output Capacitance	V _{CB} = -10V, I _E = 0, f=1MHz		2.8		pF
NF	Noise Figure	V _{CE} = -6V, I _C = -0.3mA f=1MHz, Rs=10kΩ		6.0		dB

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

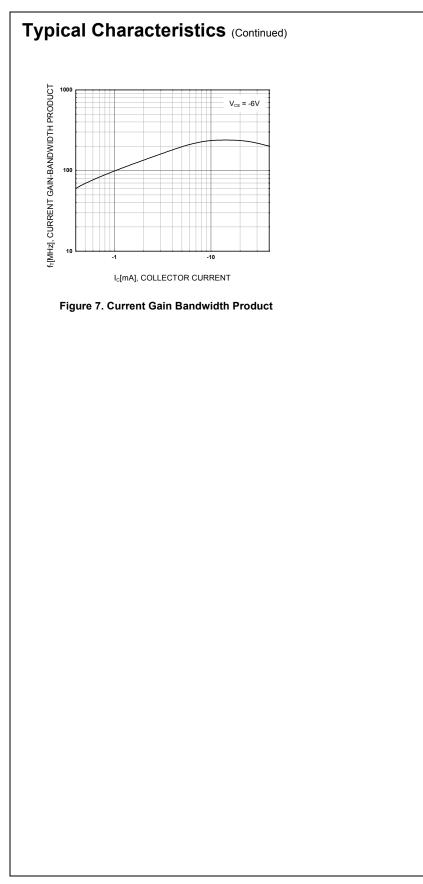
Symbol	Parameter			Max.	Units
$R_{\theta JA}$	Thermal Resista	Thermal Resistance, Junction to Ambient			°C/W
_E Classificati	on & Marking	g			
Classification	R	0	Y	G	L
h _{FE}	40 ~ 80	70 ~ 140	120 ~ 240	200 ~ 400	350 ~ 700
Marking	A2	A3	A1	A4	A5
		Marking A]		

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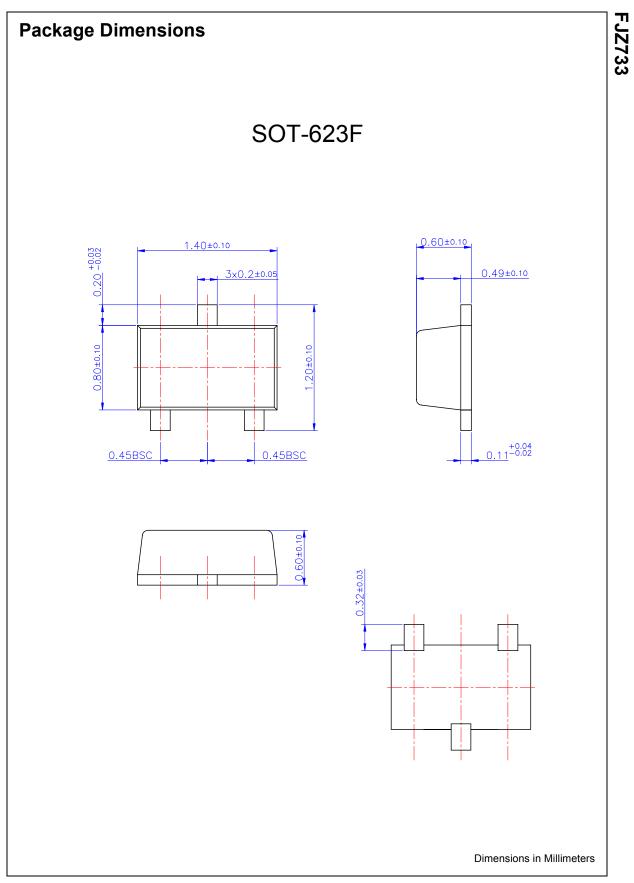


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