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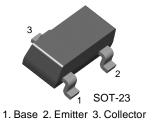
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FJV1845

Amplifier Transistor

• Complement to FJV992



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

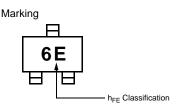
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	120	V
V_{CEO}	Collector-Emitter Voltage	120	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	50	mA
I _B	Base Current	10	mA
P _C	Collector Dissipation	300	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a =25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V_{CB} =120V, I_{E} =0			50	nA
I _{EBO}	Emitter Cut-off Current	V_{EB} =5V, I_C =0			50	nA
h _{FE1}	DC Current Gain	$V_{CE}=6V, I_{C}=0.1mA$	150	580		
h _{FE2}		V _{CE} =6V, I _C =1mA	200	600	1200	
V _{BE} (on)	Base-Emitter On Voltage	V_{CE} =6V, I_{C} =1mA	0.55	0.59	0.65	V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =1mA		0.07	0.3	V
f _T	Current Gain Bandwidth Product	V _{CE} =6V, I _C =1mA	50	110		MHz
C _{ob}	Output Capacitance	V _{CB} =30V, I _E =0, f=1MHz		1.6	2.5	pF

h_{FE2} Classification

Classification	Р	F	Е	U
h _{FE2}	200 ~ 400	300 ~ 600	400 ~ 800	600 ~ 1200



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Typical Characteristics

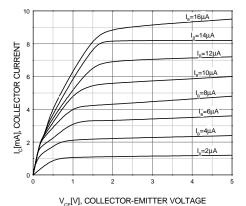


Figure 1. Static Characteristic

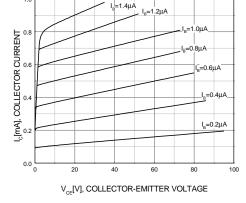


Figure 2. Static Characteristic

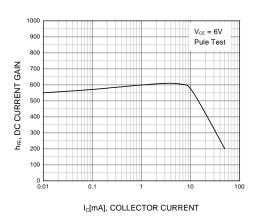


Figure 3. DC current Gain

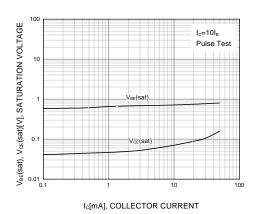


Figure 4. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

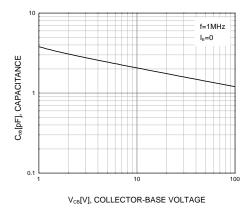


Figure 5. Collector Output Capacitance

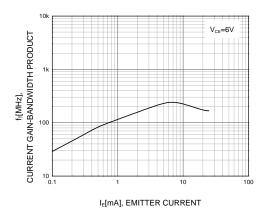
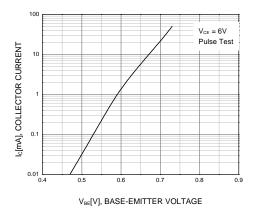


Figure 6. Current Gain Bandwidth Product

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Typical Characteristics (Continued)



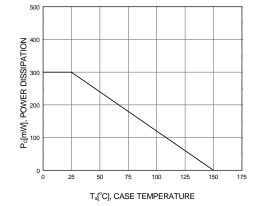
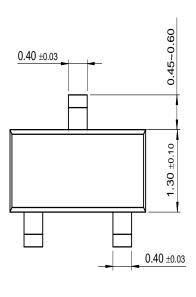


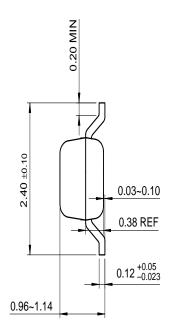
Figure 7. Collector Current vs. Base-Emitter Voltage

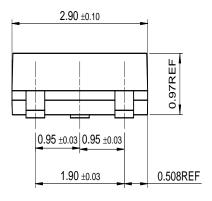
Figure 8. Power Derating

Package Dimensions

SOT-23







Dimensions in Millimeters

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Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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