

SEMICONDUCTOR®

FJV1845

Amplifier Transistor

Complement to FJV992



1. Base 2. Emitter 3. Collector

NPN Epitaxial Silicon Transistor

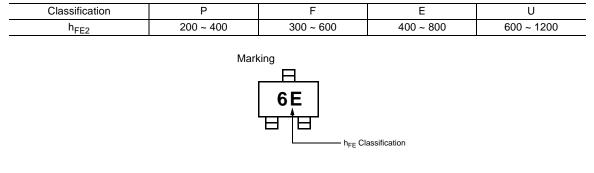
Symbol	Parameter	Value	
V _{CBO}	Collector-Base Voltage	120	V
V _{CEO}	Collector-Emitter Voltage	120	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	50	mA
в	Base Current	10	mA
P _C	Collector Dissipation	300	mW
ТJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

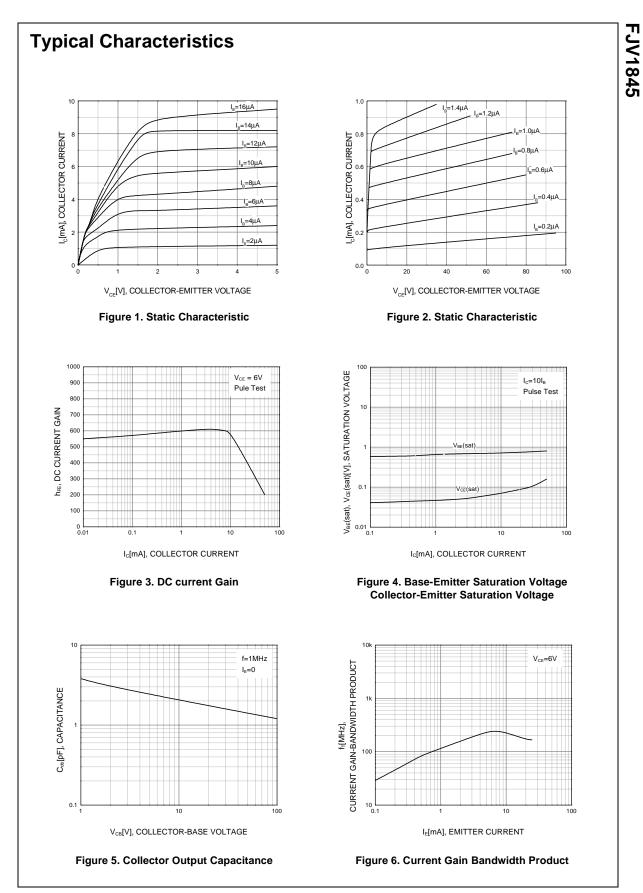
Absolute Maximum Ratings Ta=25°C unless otherwise noted

Electrical Characteristics $T_a=25^{\circ}C$ 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

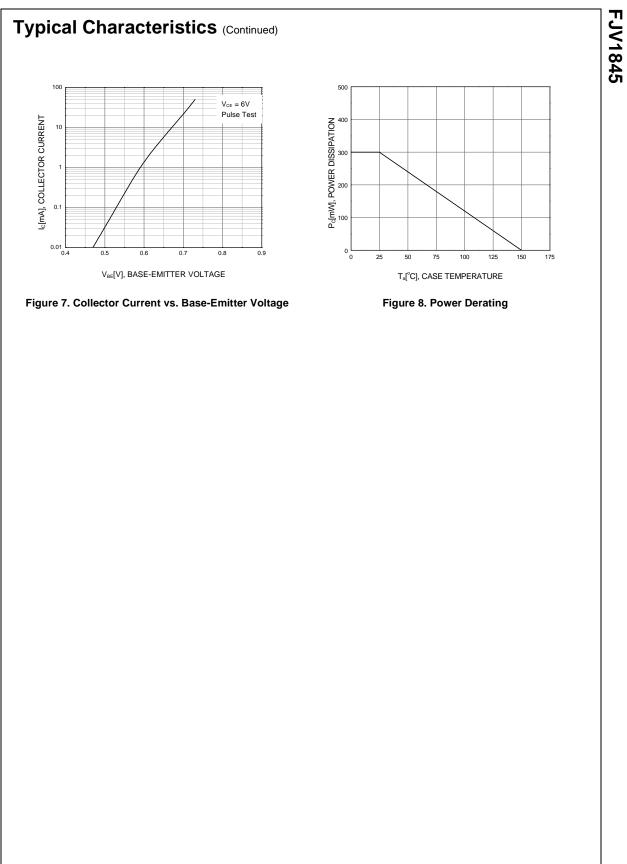
h_{FE2} Classification

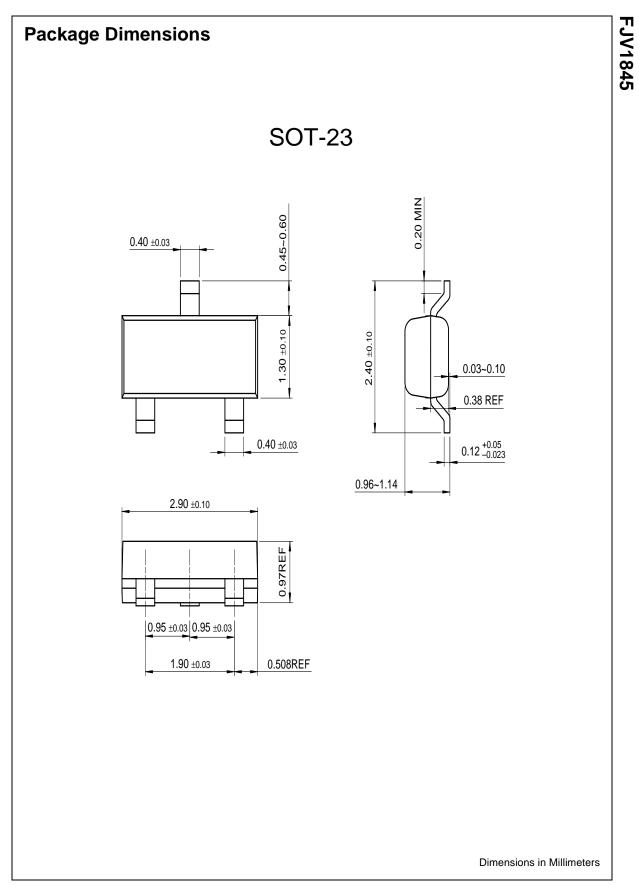




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Definition of Terms

Datasheet Identification	Product Status	Definition
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