FAIRCHILD

SEMICONDUCTOR®

FJYF2906

PNP Multi-Chip General Purpose Amplifier

- Collector-Emitter Voltage: V_{CEO} = 40V
 Amplifier and Switching Application
- E2 is on pin 1



Absolute Maximum Ratings TA=25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V _{CEO}	Collector-Emitter Voltage	40	V	
V _{CBO}	Collector-Base Voltage	40	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ι _C	Collector Current - Continuous	150	mA	
T _J , T _{STG}	Operating and Storage Junction Temperature Range	-55 ~ +150	°C	

Electrical Characteristics TA=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
Off Charact	eristics					
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 1$ MA, $I_{\rm B} = 0$ 40				V
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{\rm C} = 10\mu A, I_{\rm E} = 0$	40			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{\rm E} = 10\mu A, I_{\rm C} = 0$	5			V
I _{CEX}	Collector Cut-off Current	V _{CE} = 30V, V _{BE} = 3V			50	NA
On Characte	eristics	·		•	•	
h _{FE}	DC Current Gain *	$V_{CE} = 1V, I_{C} = 0.1MA$ $V_{CE} = 1V, I_{C} = 1mA$ $V_{CE} = 1V, I_{C} = 10mA$ $V_{CE} = 1V, I_{C} = 50mA$ $V_{CE} = 1V, I_{C} = 100mA$			300	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 10mA, I _B = 1mA I _C = 50mA, I _B = 5mA			0.3 0.5	V V
V _{BE} (sat)	Base-Emitter Saturation Voltage	$I_C = 10$ mA, $I_B = 1$ mA $I_C = 50$ mA, $I_B = 5$ mA	0.65		0.95 1	V V
Small Signa	I Characteristics					
f _T	Current gain Bandwidth Product	V _{CE} = 20V, I _C = 10mA 250 f = 100MHz			MHz	
C _{obo}	Output Capacitance	V _{CB} = 5V, I _E = 0, f = 1MHz			4.5	pF
C _{ibo}	Input Capacitance	$V_{EB} = 0.5V, I_{C} = 0, f = 1MHz$			10	pF

NOTE: All voltage (V) and currents (A) are negative for PNP transistors.

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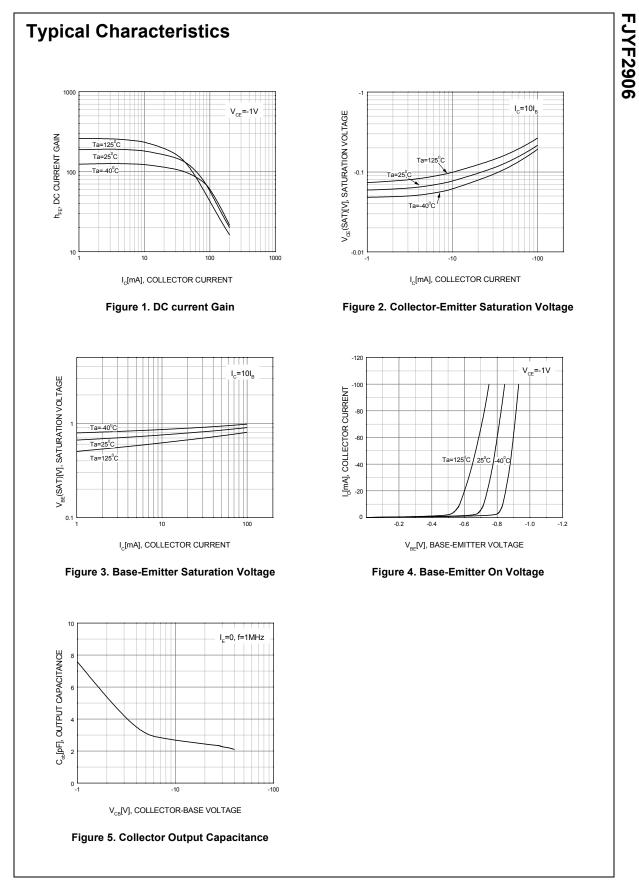
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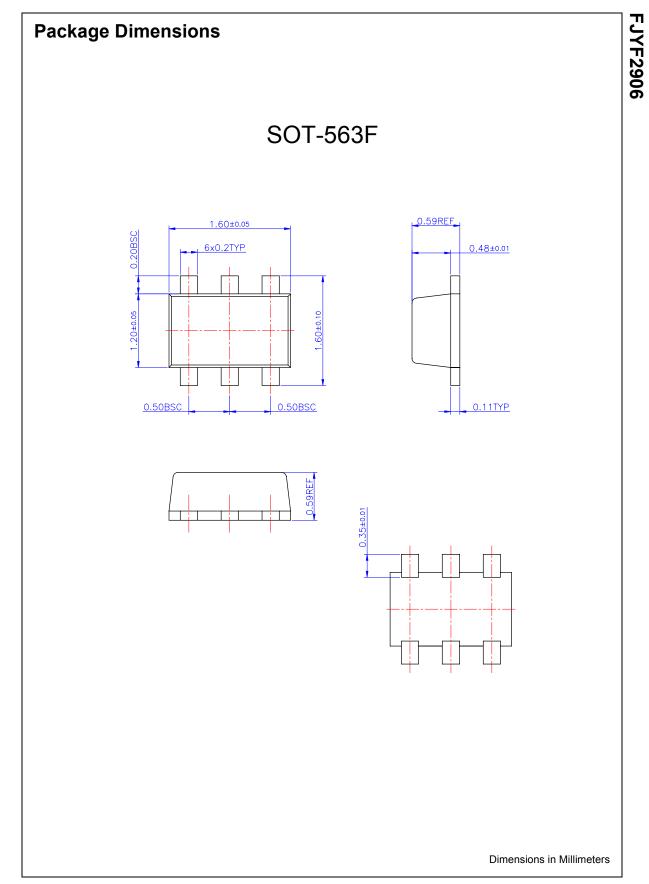
Symbol	haracteristics T _A =25°C unless otherwise noted Parameter	FJYF2906	Units
о р	Total Device Dissipation	150	mW
	Derate above 25°C	1.2	mW/°C
RθJA	Thermal Resistance, Junction to Ambient	833	°C/W

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