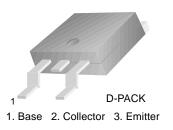


SEMICONDUCTOR®

FJD3076

Power Amplifier Applications

Low Collector-Emitter Saturation Voltage



NPN Epitaxial Silicon Transistor

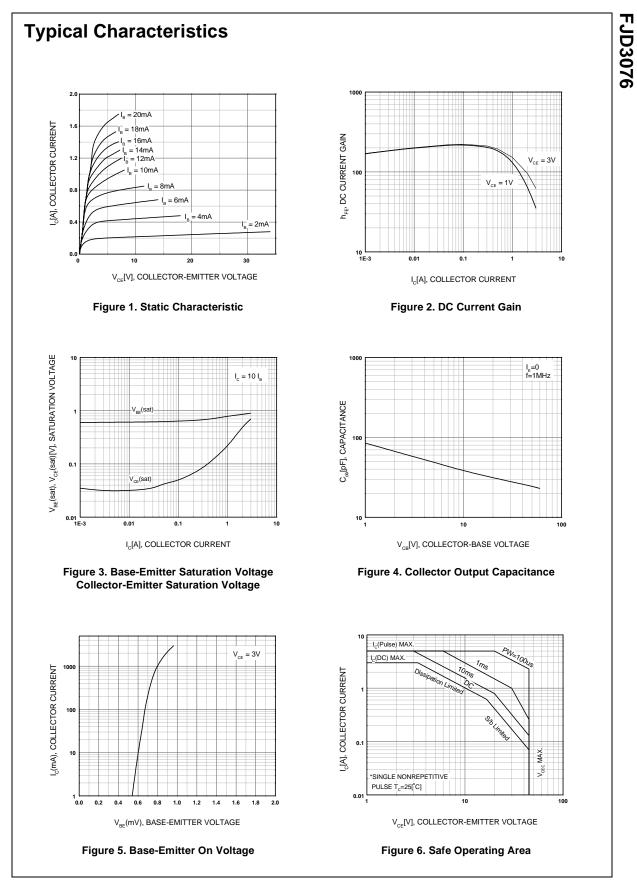
Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	32	V	
V _{EBO}	Emitter-Base Voltage	5	V	
I _C	Collector Current	2	A	
P _C	Collector Dissipation (T _a =25°C)	1	W	
	Collector Dissipation (T _C =25°C)	10	W	
Tj	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	- 55 ~ 150	°C	

Electrical Characteristics T_C=25°C unless otherwise noted

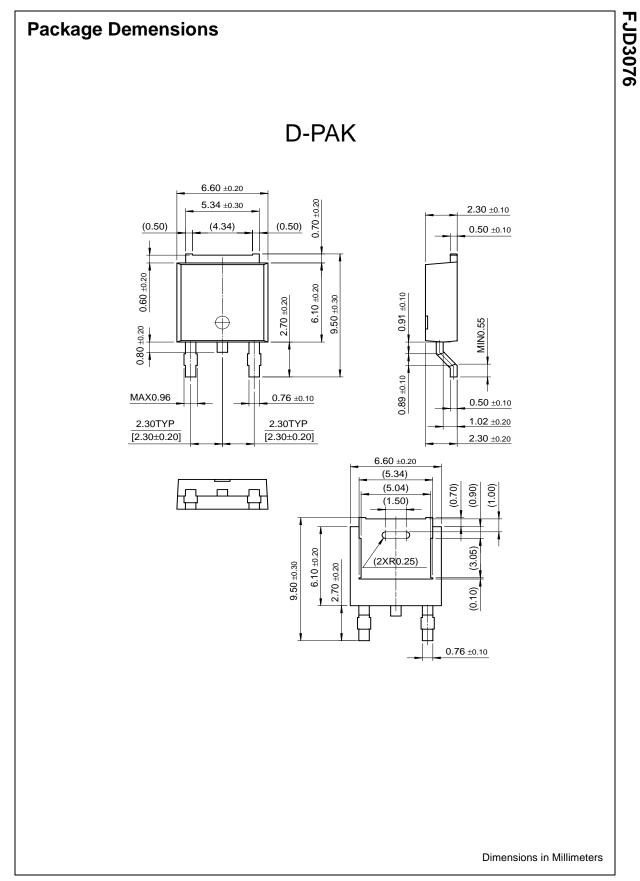
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_{\rm C} = 1$ mA, $I_{\rm B} = 0$	32			V
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = 50μA	40			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = 50μA	5			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 20V, I_E = 0$			1	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 4V, I_{C} = 0$			1	μΑ
h _{FE}	DC Current Gain	$V_{CE} = 3V, I_{C} = 0.5A$	130		390	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2A, I _B = 0.2A		0.5	0.8	V
f _T	Current Gain Bandwidth Product	V _{CE} = 5V, I _E = -0.5A, f = 100MHz		100		MHz
C _{ob}	Output Capacitance	$V_{CB} = 10V, I_E = 0A,$ f = 1MHz		50		pF

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Definition of Terms

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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