

FJD3076TM Datasheet

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DiGi Electronics Part Number	FJD3076TM-DG
Manufacturer	onsemi
anufacturer Product Number	FJD3076TM
Description	TRANS NPN 32V 2A DPAK
Detailed Description	Bipolar (BJT) Transistor NPN 32 V 2 A 100MHz 1 W S urface Mount DPAK

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:	
FJD3076TM	onsemi	
Series:	Product Status:	
	Obsolete	
Transistor Type:	Current - Collector (Ic) (Max):	
NPN	2 A	
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:	
32 V	800mV @ 200mA, 2A	
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:	
1µA (ICBO)	130 @ 500mA, 3V	
Power - Max:	Frequency - Transition:	
1 W	100MHz	
Operating Temperature:	Mounting Type:	
150°C (TJ)	Surface Mount	
Package / Case:	Supplier Device Package:	
TO-252-3, DPAK (2 Leads + Tab), SC-63	DPAK	
Base Product Number:		
FJD3076		

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8541.29.0075	



Is Now Part of

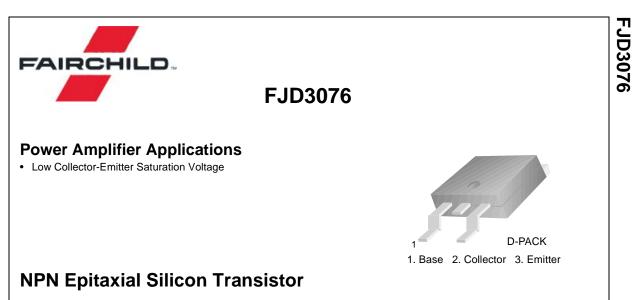


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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

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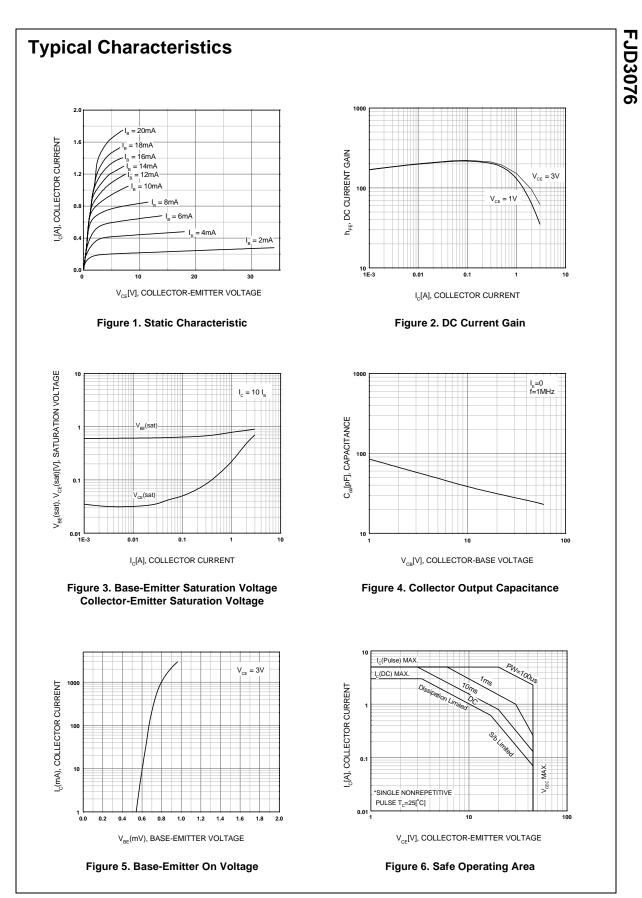
Absolute Maximum Ratings T_C=25°C unless otherwise noted

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	А	
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	

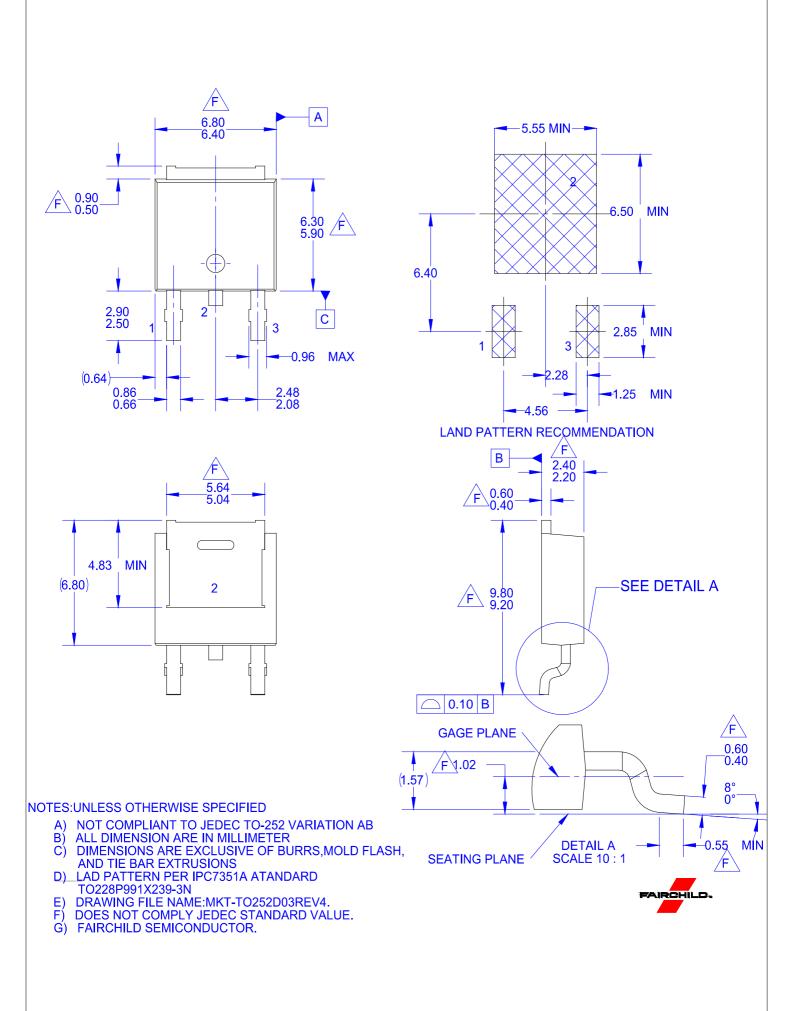
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 1mA, I _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	μA
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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