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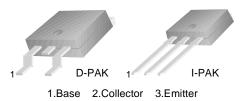
## FAIRCHILD

SEMICONDUCTOR®

### MJD32/32C

## General Purpose Amplifier Low Speed Switching Applications D-PAK for Surface Mount Applications • Load Formed for Surface Mount Application (No Suffix) • Straight Lead (I-PAK, "- I" Suffix)

- Electrically Similar to Popular TIP32 and TIP32C



### **PNP Epitaxial Silicon Transistor**

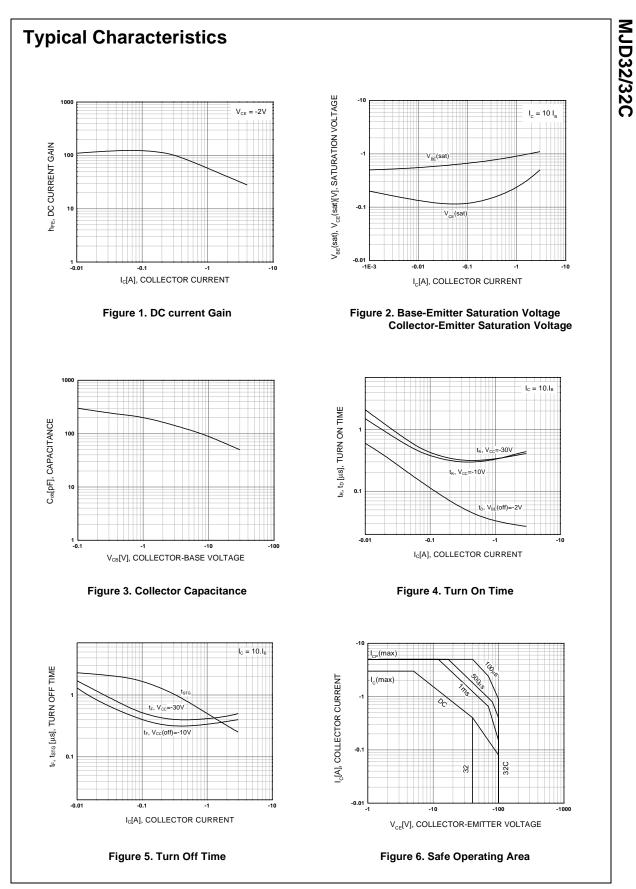
Absolute Maximum	<b>Ratings</b> $T_{C}=25^{\circ}C$ unless otherwise noted
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Symbol	Parameter	Value	Units	
V <sub>CBO</sub>	Collector-Base Voltage	- 40	V	
	: MJD32	- 100	V	
	: MJD32C			
V <sub>CEO</sub>	Collector-Emitter Voltage	- 40	V	
	: MJD32	- 100	V	
	: MJD32C			
V <sub>EBO</sub>	Emitter-Base Voltage	- 5	V	
I <sub>C</sub>	Collector Current (DC)	- 3	A	
I <sub>CP</sub>	Collector Current (Pulse)	- 5	A	
I <sub>B</sub>	Base Current	- 1	A	
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	15	W	
Collector D	Collector Dissipation (T <sub>a</sub> =25°C)	1.56	W	
TJ	Junction Temperature	150	°C	
T <sub>STG</sub>	Storage Temperature	- 65 ~ 150	°C	

Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

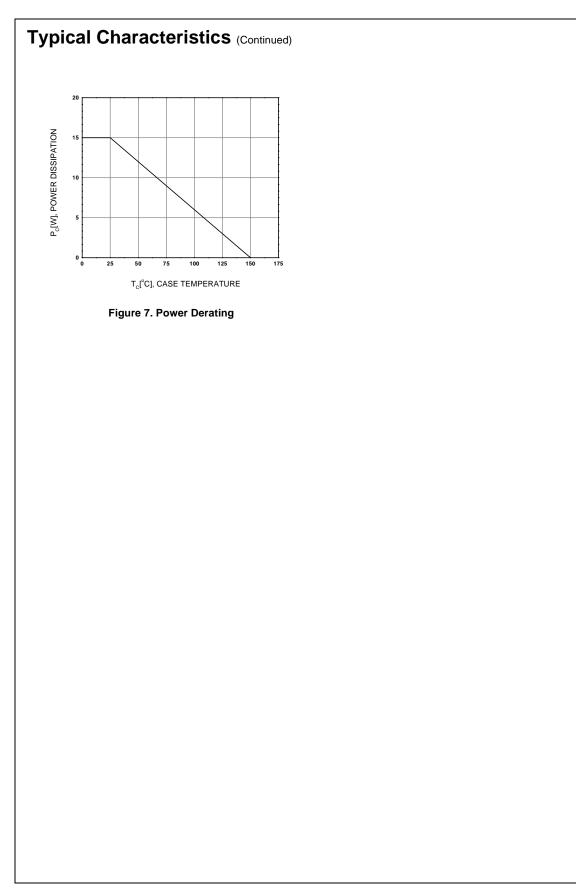
Symbol	Parameter	Test Condition	Min.	Max.	Units
V <sub>CEO</sub> (sus)	* Collector-Emitter Sustaining Voltage				
0201	: MJD32	I <sub>C</sub> = - 30mA, I <sub>B</sub> = 0	-40		V
	: MJD32C		-100		V
I <sub>CEO</sub>	Collector Cut-off Current				
020	: MJD32	$V_{CF} = -40V, I_{B} = 0$		-50	μΑ
	: MJD32C	$V_{CE} = -60V, I_{B} = 0$		-50	μA
I <sub>CES</sub>	Collector Cut-off Current				
	: MJD32	$V_{CE} = -40V, V_{BE} = 0$		-20	μΑ
	: MJD32C	$V_{CE} = -100V, V_{BE} = 0$		-20	μA
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{BE} = -5V, I_{C} = 0$		-1	mA
h <sub>FE</sub>	* DC Current Gain	V <sub>CE</sub> = - 4V, I <sub>C</sub> = - 1A	25		
		$V_{CE} = -4V, I_{C} = -3A$	10	50	
V <sub>CE</sub> (sat)	* Collector-Emitter Saturation Voltage	I <sub>C</sub> = - 3, I <sub>B</sub> = - 375mA		-1.2	V
V <sub>BE</sub> (on)	* Base-Emitter ON Voltage	V <sub>CE</sub> = - 4A, I <sub>C</sub> = - 3A		-1.8	V
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CF</sub> = -10V, I <sub>C</sub> = - 500mA	3		MHz

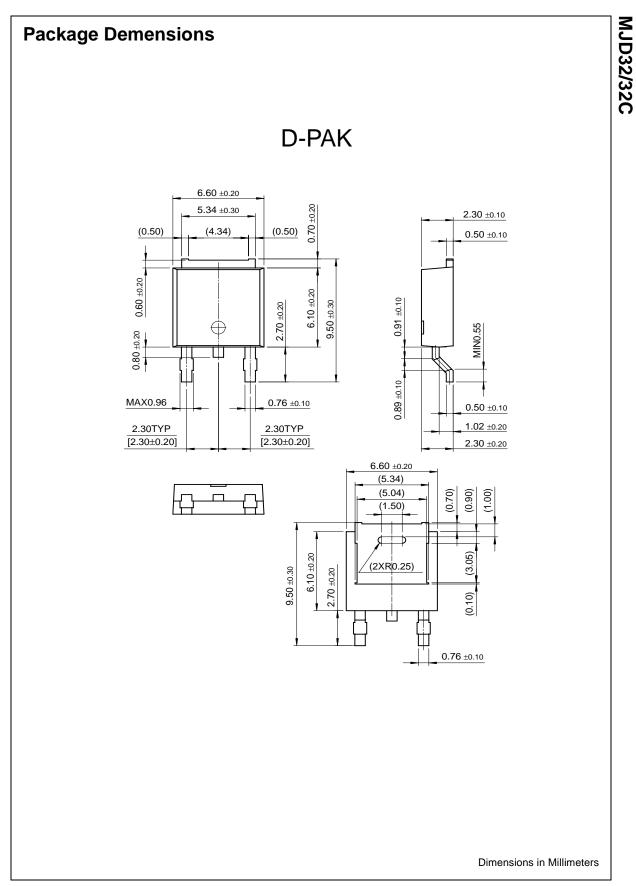
# MJD32/32C



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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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