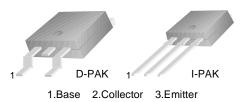
FAIRCHILD

SEMICONDUCTOR®

MJD41C

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 TIP41 and TIP41C



NPN Epitaxial Silicon Transistor

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
Ι _C	Collector Current (DC)	6	А
I _{CP}	Collector Current (Pulse)	10	А
I _B	Base Current	2	А
P _C	Collector Dissipation (T _C =25°C)	20	W
	Collector Dissipation (T _a =25°C)	1.75	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

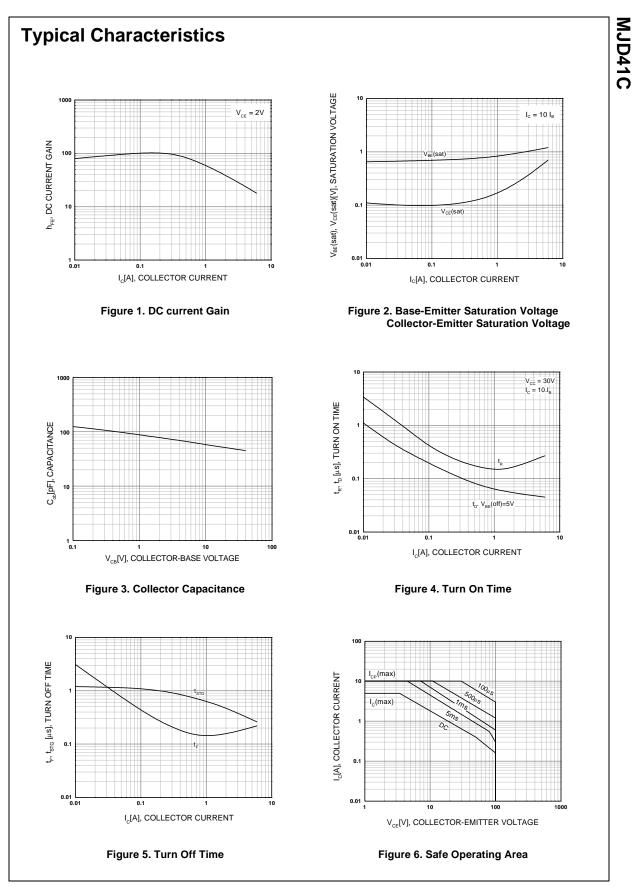
Absolute Maximum Ratings T_C=25°C unless otherwise noted

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage	$I_{\rm C} = 30 {\rm mA}, I_{\rm B} = 0$	100		V
I _{CEO}	Collector Cut-off Current	$V_{CE} = 60V, I_B = 0$		50	μΑ
I _{CES}	Collector Cut-off Current	V _{CE} = 100V, V _{BE} = 0		10	uA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = 5V, I_{C} = 0$		0.5	mA
h _{FE}	* DC Current Gain	$V_{CE} = 4V, I_{C} = 0.3A$	30		
		$V_{CE} = 4V, I_{C} = 3A$	15	75	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = 6A, I _B = 600mA		1.5	V
V _{BE} (on)	* Base-Emitter ON Voltage	$V_{CE} = 6A, I_C = 4A$		2	V
f _T	Current Gain Bandwidth Product	V _{CE} = 10V, I _C = 500mA	3		MHz

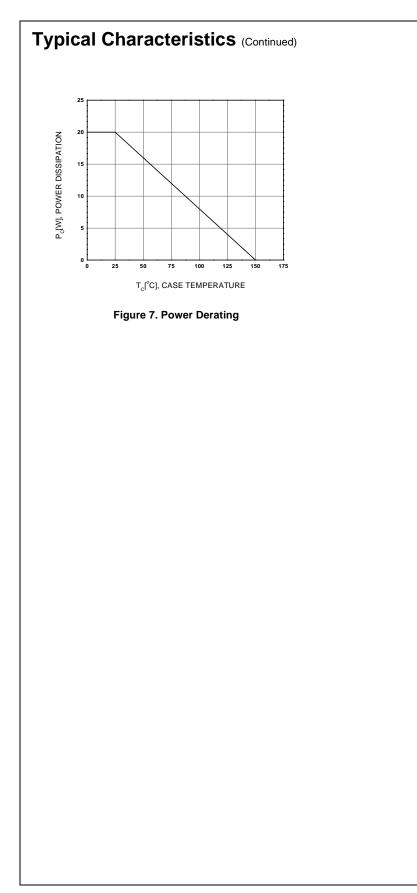
* Pulse Test: PW≤300µs, Duty Cycle≤2%

MJD41C

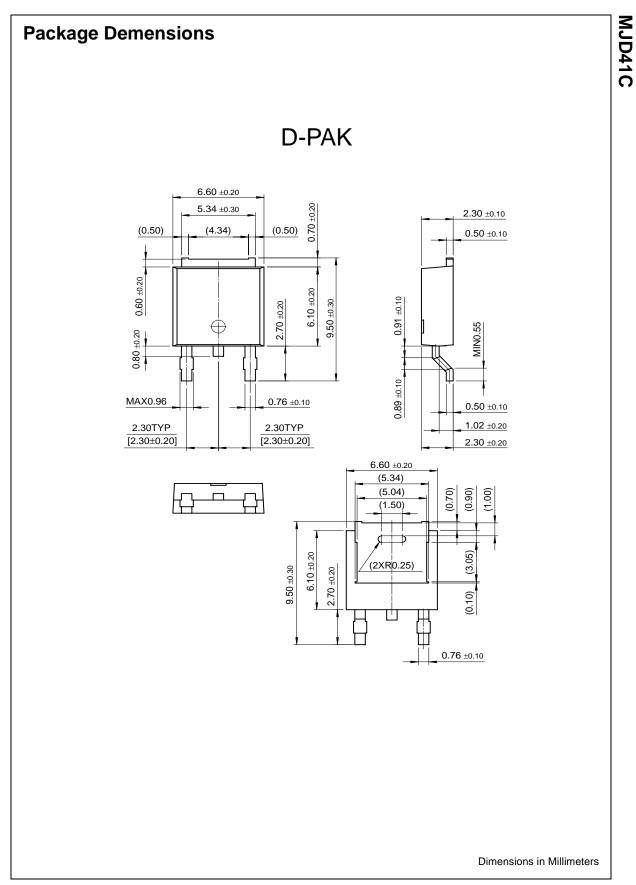


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Rev. A2, June 2001



MJD41C



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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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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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