FAIRCHILD

SEMICONDUCTOR®

MJD210

D-PAK for Surface Mount Applications

- High DC Current Gain
- Low Collector Emitter Saturation Voltage
- Lead Formed for Surface Mount Applications (No Suffix)
- Straight Lead (I-PAK, " I " Suffix)



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

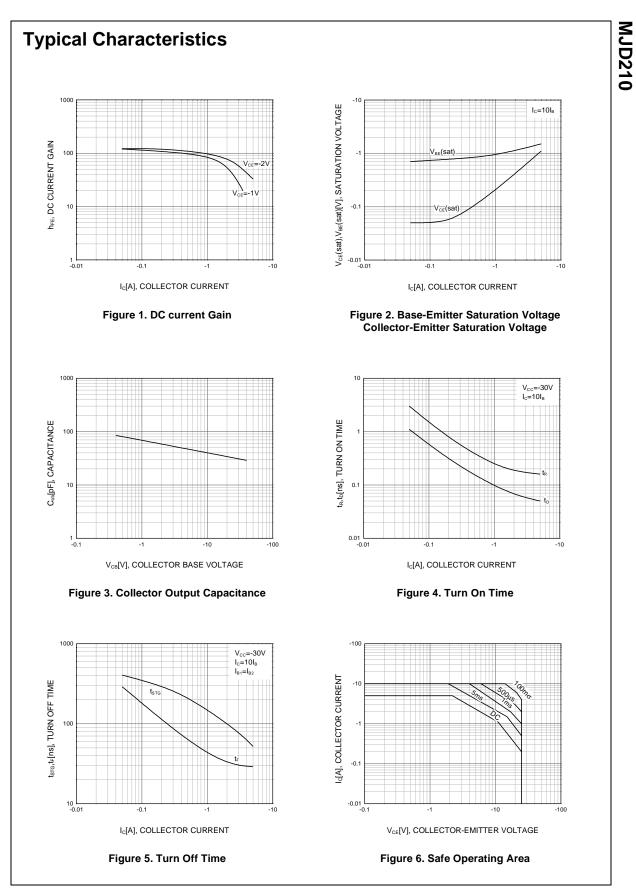
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	- 40	V
V _{CEO}	Collector-Emitter Voltage	- 25	V
V _{EBO}	Emitter-Base Voltage	- 8	V
Ι _C	Collector Current (DC)	- 5	A
I _{CP}	Collector Peck Current (Pulse)	- 10	A
I _B	Base Current	- 1	A
P _C	Collector Dissipation ($T_C = 25^{\circ}C$)	12.5	W
	Collector Dissipation ($T_a = 25^{\circ}C$)	1.4	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage	I _C = - 10mA, I _B = 0	-25		V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -40V, I_E = 0$		-100	nA
I _{EBO}	Emitter Cut-off Current	$V_{EBO} = -8V, I_{C} = 0$		-100	nA
h _{FE}	* DC Current Gain	$V_{CE} = -1V, I_C = -500mA$ $V_{CE} = -1V, I_C = -2A$	70 45	180	
		$V_{CE} = -2V, I_{C} = -5A$	10		
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	$I_{C} = -500$ mA, $I_{B} = -50$ mA $I_{C} = -2$ A, $I_{B} = -200$ mA $I_{C} = -5$ A, $I_{B} = -1$ A		-0.3 -0.75 -1.8	V V V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = - 5A, I _B = - 1A		-2.5	V
V _{BE} (on)	* Base-Emitter ON Voltage	V _{CE} = - 1V, I _C = - 2A		-1.6	V
f _T	Current Gain Bandwidth Product	V _{CE} = - 10V, I _C = - 100mA	65		MHz
C _{ob}	Output Capacitance	V _{CB} = - 10V, I _E = 0, f = 0.1MHz		120	pF

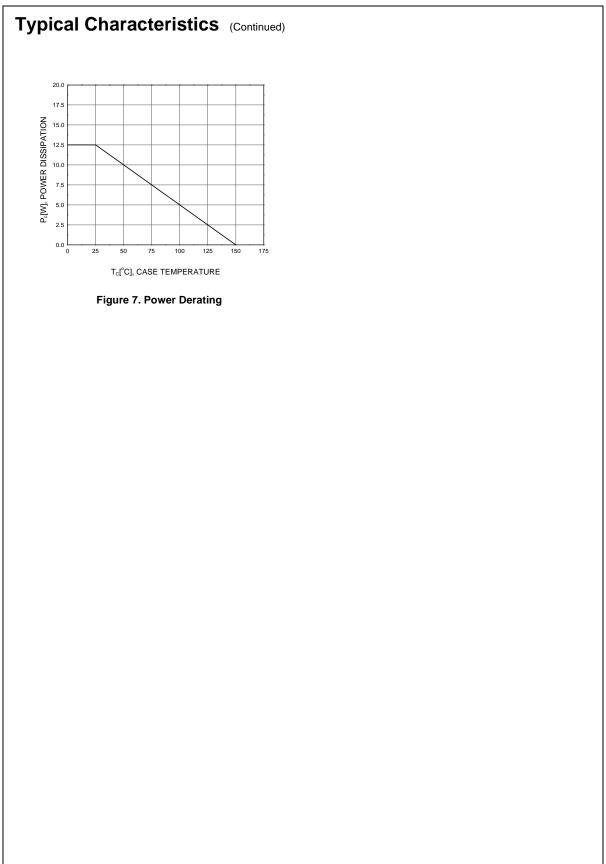
* Pulse Test: PW≤300µs, Duty Cycle≤2%

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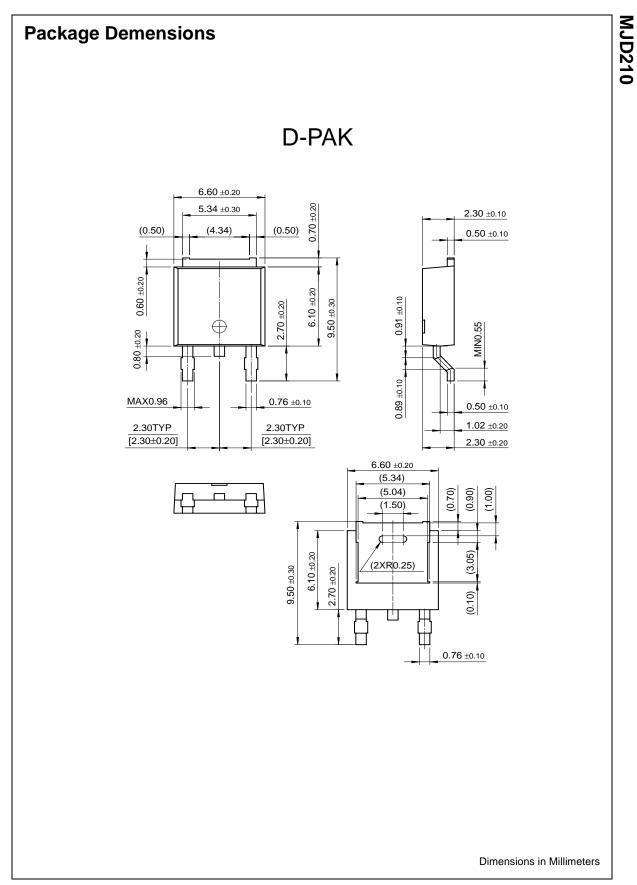


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Rev. A2, June 2001



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