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FAIRCHILD

SEMICONDUCTOR TM

MJE210

Feature

- Low Collector-Emitter Saturation Voltage
- High Current Gain Bandwidth Product : f_T=65MHz@I_C= -100mA (Min.)
- Complement to MJE200



PNP Epitaxial Silicon Transistor

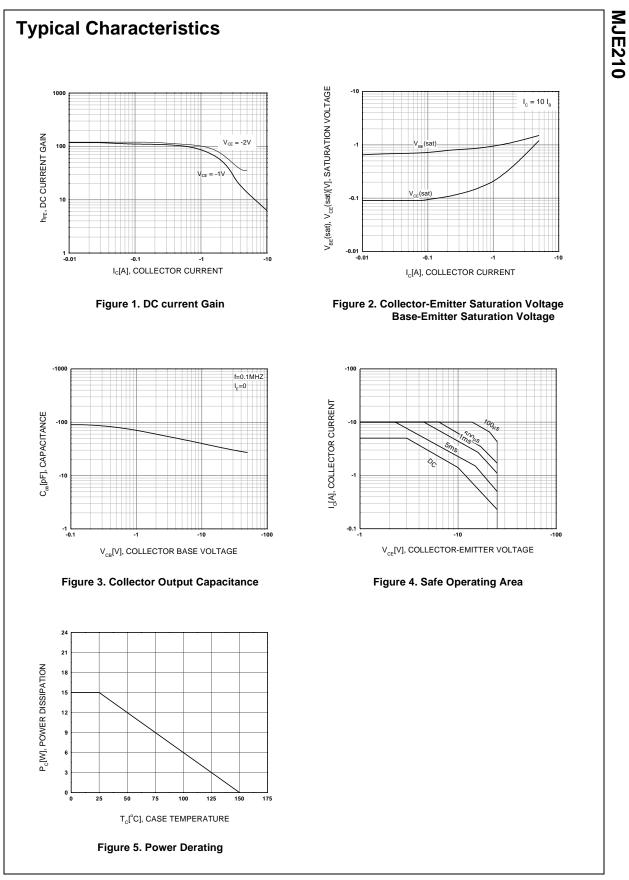
Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

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
I _C	Collector Current	- 5	A
P _C	Collector Dissipation (T _C =25°C)	15	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

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

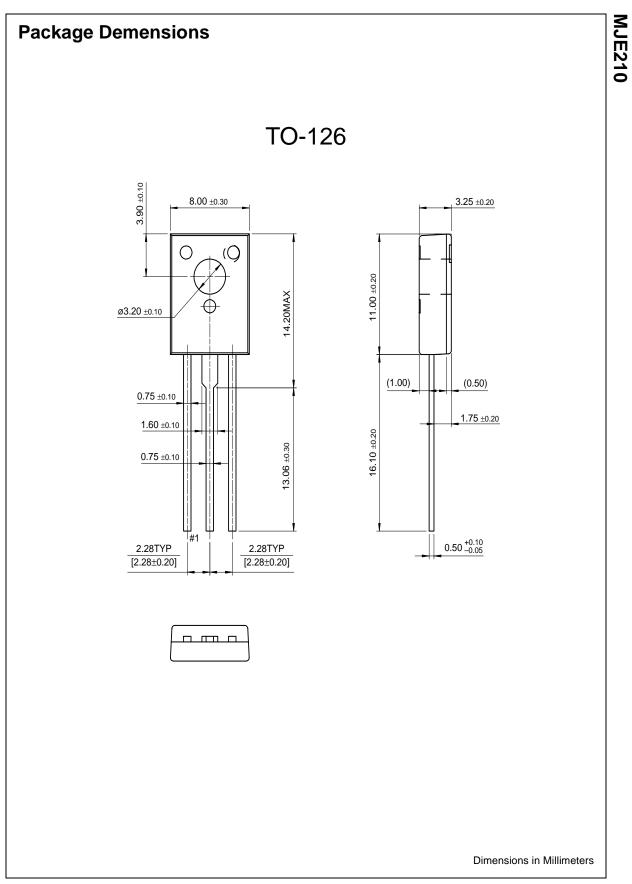
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = - 10mA, I _B = 0	-25		V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -40V, I_{E} = 0$		-100	nA
		$V_{CB} = -40V, I_E = 0 @ T_J = 125^{\circ}C$		-100	μA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = -8V, I_{C} = 0$		-100	nA
h _{FE1}	DC Current Gain	V _{CE} = - 1V, I _C = - 500mA	70		
h _{FE2}		V _{CE} = - 1V, I _C = - 2A	45	180	
h _{FE3}		$V_{CE} = -2V, I_{C} = -5A$	10		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = - 500mA, I _B = - 50mA		-0.3	V
		I _C = - 2A, I _C = - 200mA		-0.75	V
		I _C = - 5A, I _B = - 1A		-1.8	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 _F = 0, f = 1MHz		120	pF

MJE210



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