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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

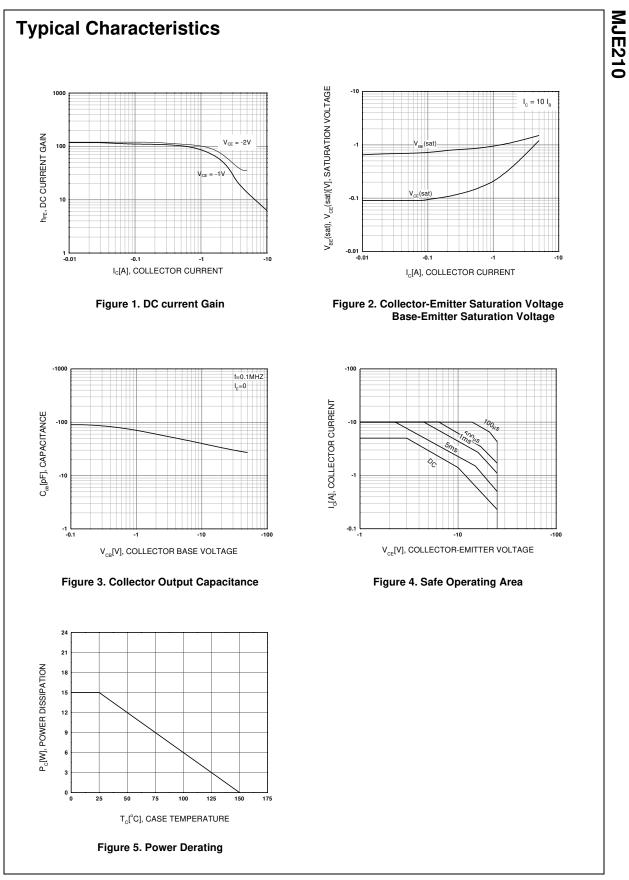
Absolute Maximum Ratings T_C=25°C unless otherwise noted

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

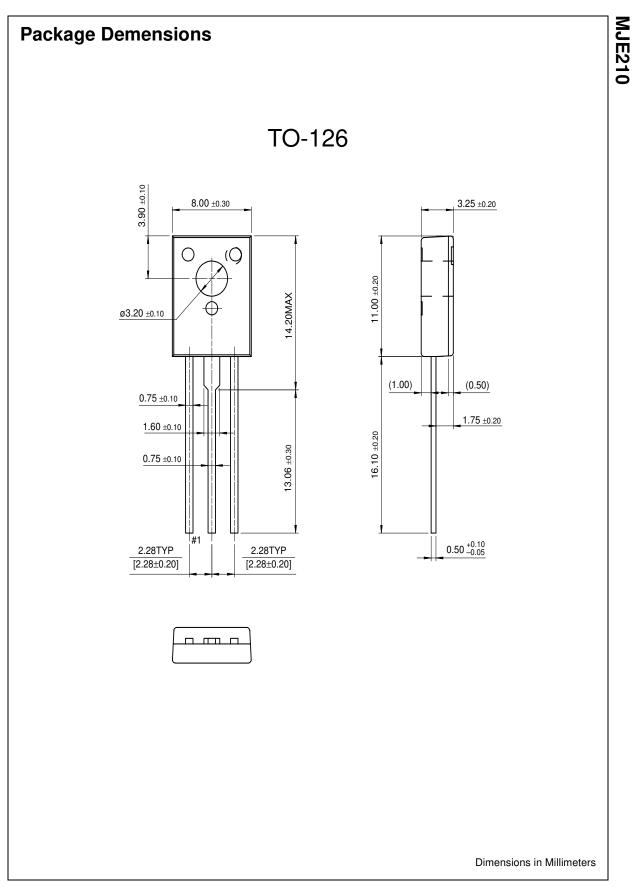
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = - 10mA, I _B = 0	-25		V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -40V, I_{E} = 0$		-100	nA
		V _{CB} = - 40V, I _E =0 @ T _J = 125°C		-100	μA
I _{EBO}	Emitter Cut-off Current	$V_{BE} = -8V, I_{C} = 0$		-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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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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