

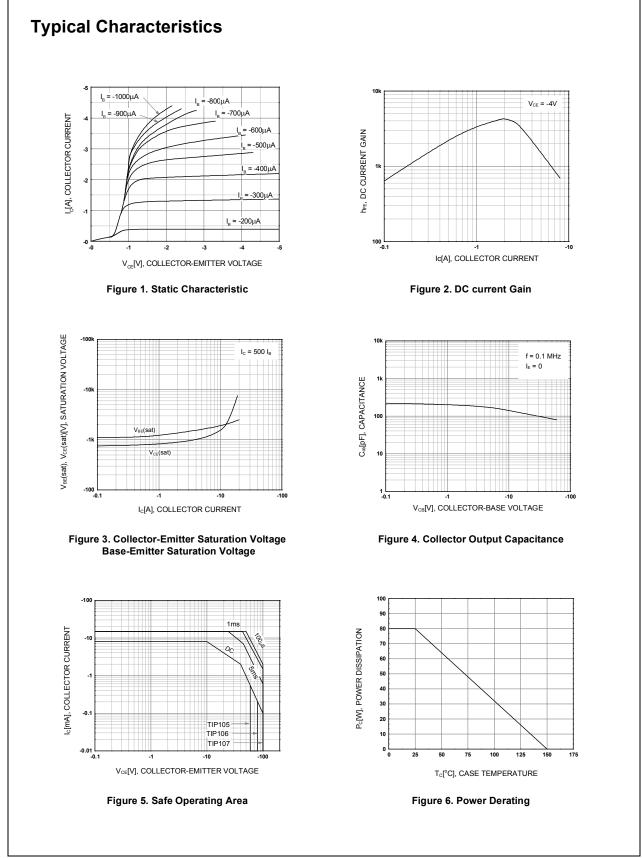
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V _{CBO}	Collector-Base Voltage : TIP105	- 60	V
	: TIP106	- 80	V
	: TIP107	- 100	V
V _{CEO}	Collector-Emitter Voltage : TIP105	- 60	V
	: TIP106	- 80	V
	: TIP107	- 100	V
V _{EBO}	Emitter-Base Voltage	- 5	V
I _C	Collector Current (DC)	- 8	A
I _{CP}	Collector Current (Pulse)	- 15	A
I _B	Base Current (DC)	- 1	A
P _C	Collector Dissipation (T _a =25°C)	2	W
	Collector Dissipation (T _C =25°C)	80	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

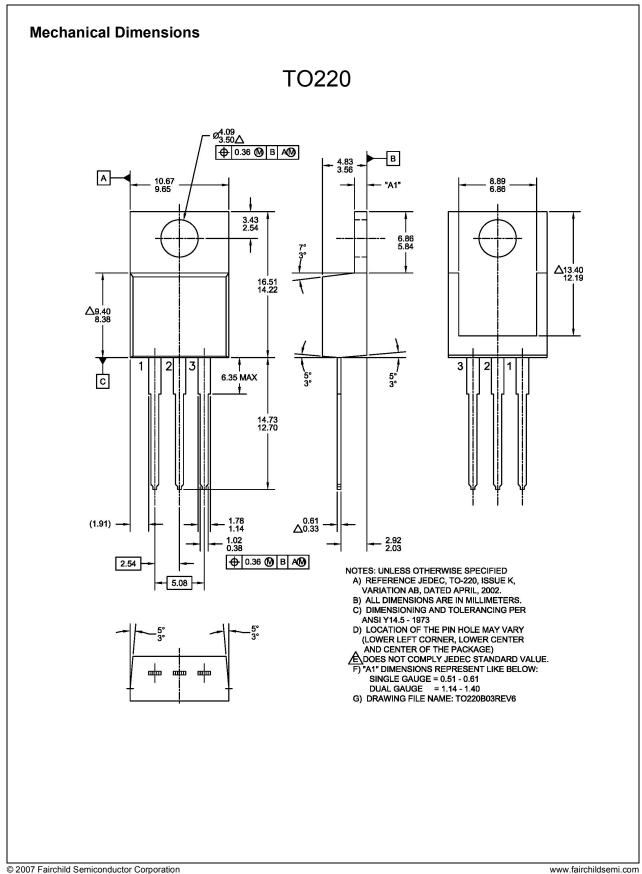
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V _{CEO} (sus)	Collector-Emitter Sustaining Voltage					
	: TIP105	I _C = -30mA, I _B = 0	-60			V
	: TIP106		-80			V
	: TIP107		-100			V
CEO	Collector Cut-off Current					
	: TIP105	V _{CE} = -30V, I _B = 0			-50	μA
	: TIP106	$V_{CE} = -40V, I_{B} = 0$			-50	μA
	: TIP107	$V_{CE} = -50V, I_{B} = 0$			-50	μA
I _{CBO}	Collector Cut-off Current					
	: TIP105	V _{CB} = -60V, I _E = 0			-50	μA
	: TIP106	$V_{CB} = -80V, I_{E} = 0$			-50	μA
	: TIP107	V _{CB} = -100V, I _E = 0			-50	μA
EBO	Emitter Cut-off Current	V _{BE} = -5V, I _C = 0			-2	mA
٦ _{FE}	DC Current Gain	V _{CE} = -4V, I _C = -3A	1000		20000	
		$V_{CE} = -4V, I_{C} = -8A$	200			
V _{CF} (sat)	Collector-Emitter Saturation Voltage	I _C = -3A, I _B = -6mA			-2	V
		$I_{\rm C}$ = -8A, $I_{\rm B}$ = -80mA			-2.5	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -4V, I _C = -8A			-2.8	V
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E = 0, f = 0.1MHz			300	pF

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

TIP105/TIP106/TIP107 — PNP Epitaxial Silicon Darlington Transistor



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