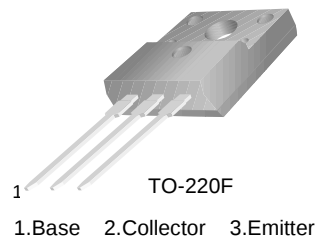


FJPF9020

FJPF9020

Monolithic Construction With Built In Base-Emitter Shunt Resistors

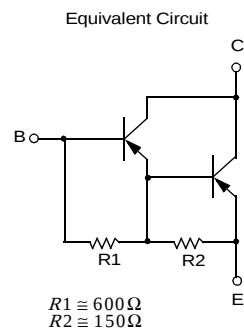
- High Collector-Base Breakdown Voltage : $BV_{CBO} = -550V$
- High DC Current Gain : $h_{FE} = 550$ @ $V_{CE} = -4V$, $I_C = -1A$ (Typ.)
- Industrial Use



PNP Epitaxial Darlington Transistor

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

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	- 550	V
V_{CEO}	Collector-Emitter Voltage	- 550	V
V_{EBO}	Emitter-Base Voltage	- 6	V
I_C	Collector Current (DC)	- 2	A
I_{CP}	Collector Current (Pulse)	- 4	A
P_C	Collector Dissipation ($T_C = 25^\circ C$)	15	W
T_J	Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature	- 55 ~ 150	$^\circ C$



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

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C = -100\mu A$, $I_E = 0$	- 550			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -500\mu A$, $I_B = 0$	- 550			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = -200mA$, $I_C = 0$	-6			V
I_{CBO}	Collector Cut-off Current	$V_{CE} = -550V$, $I_E = 0$			-100	μA
I_{EBO}	Emitter Cut-off Current	$V_{EB} = -6V$, $I_C = 0$		-10	-20	mA
h_{FE}	DC Current Gain	$V_{CE} = -4V$, $I_C = -1A$	400	550	700	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -1A$, $I_B = -20mA$		-1.0	- 1.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -1A$, $I_B = -20mA$		-1.5	- 2.0	V

Typical Characteristics

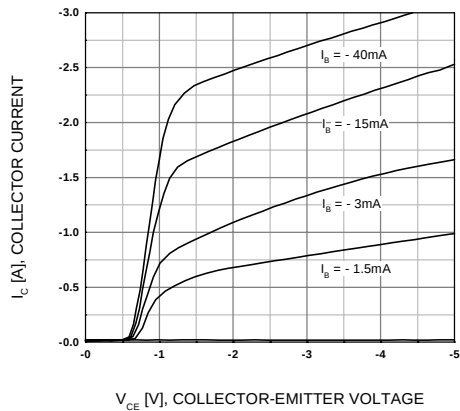


Figure 1. Static Characteristic

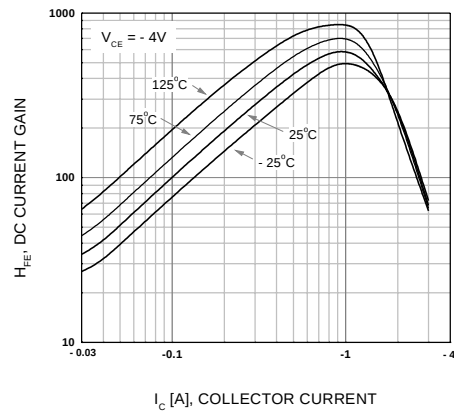


Figure 2. DC current Gain

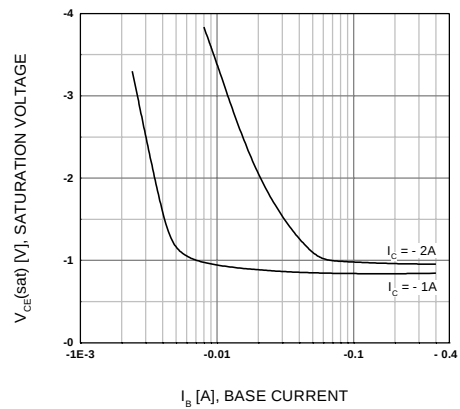


Figure 3. $V_{ce(sat)}$ vs. I_b Characteristics

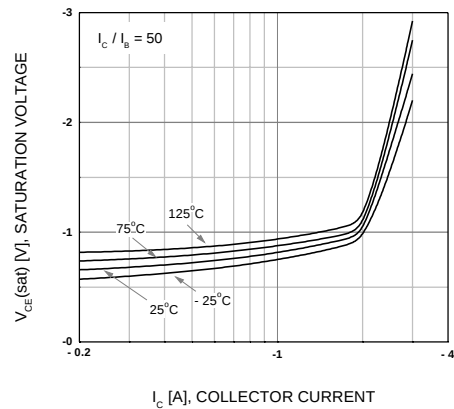


Figure 4. Collector-Emitter Saturation Voltage

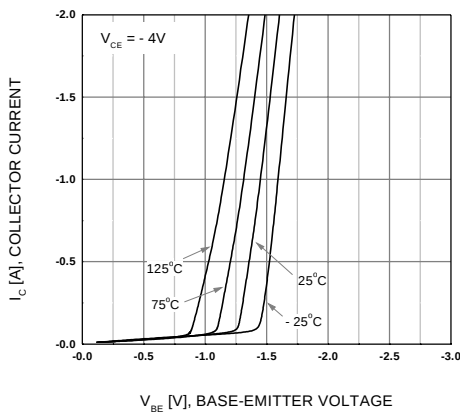


Figure 5. Base-Emitter On Voltage

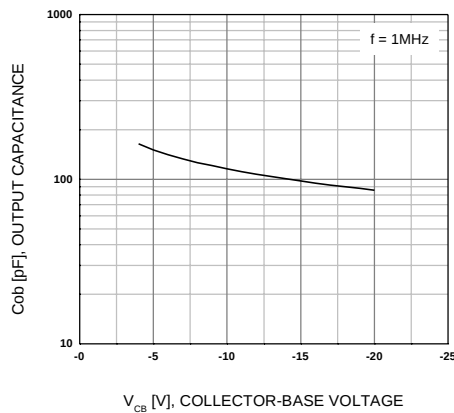


Figure 6. Output Capacitance

Typical Characteristics (Continued)

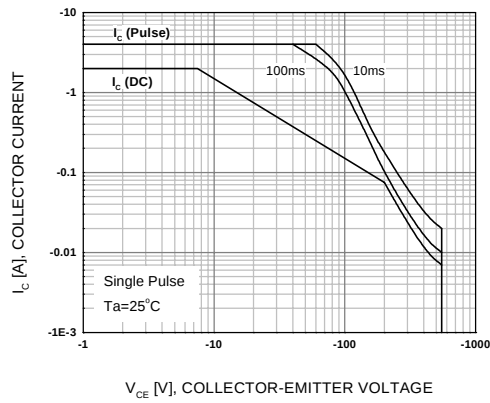


Figure 7. Forward Bias Safe Operating Area

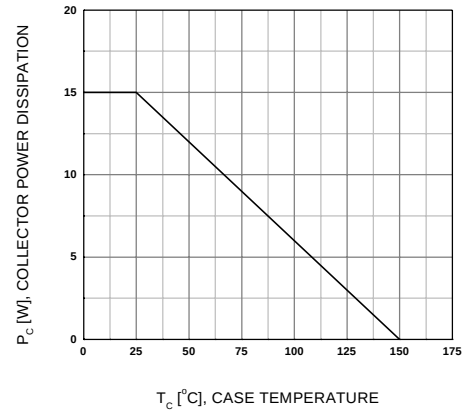


Figure 8. Power Derating

Technical drawing of a probe with dimensions in millimeters. The drawing includes a front view, a side view, and a detail view of the probe tip.

Front View Dimensions:

- Overall width: 10.16 ± 0.20
- Overall height: 3.30 ± 0.10
- Central hole diameter: $\varnothing 3.18 \pm 0.10$
- Probe tip diameter: 0.35 ± 0.10
- Probe tip length: 9.75 ± 0.30
- Probe tip angle: 30°
- Probe tip label: #1
- Probe tip material: 2.54TYP
- Probe tip tolerance: $[2.54 \pm 0.20]$

Side View Dimensions:

- Overall height: 15.87 ± 0.20
- Base diameter: 2.76 ± 0.20
- Base material: 2.54TYP
- Base tolerance: $[2.54 \pm 0.20]$

Detail View Dimensions:

- Base diameter: 9.40 ± 0.20
- Base height: 4.70 ± 0.20

Rev. A, June 2002

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