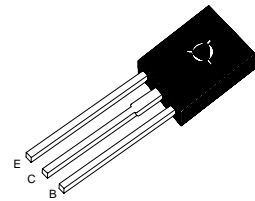


**PNP Silicon Epitaxial Power Transistor**

These devices are intended for use in audio frequency power amplifier and low speed switching applications



TO-18 Plastic Package

**Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)**

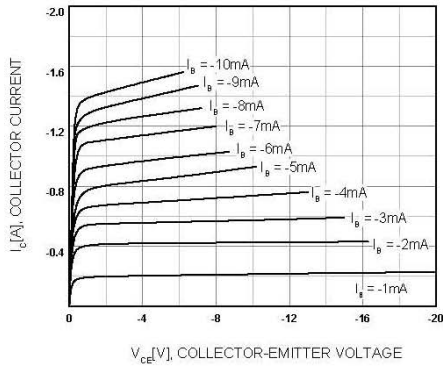
Parameter	Symbol	Value	Unit
Collector Base Voltage	-V <sub>CBO</sub>	40	V
Collector Emitter Voltage	-V <sub>CEO</sub>	30	V
Emitter Base Voltage	-V <sub>EBO</sub>	5	V
Collector Current - DC	-I <sub>C</sub>	3	A
Collector Current - Pulse <sup>1)</sup>	-I <sub>CP</sub>	7	A
Base Current - DC	-I <sub>B</sub>	0.6	A
Total Power Dissipation	P <sub>tot</sub>	10 1	W
Operating and Storage Junction Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	- 65 to + 150	°C

<sup>1)</sup> PW = 10 ms, Duty Cycle ≤ 50 %

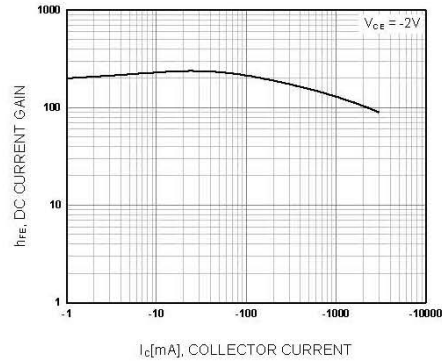
**Characteristics at T<sub>a</sub> = 25 °C**

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at -V <sub>CE</sub> = 2 V, -I <sub>C</sub> = 20 mA at -V <sub>CE</sub> = 2 V, -I <sub>C</sub> = 1 A Current Gain Group	R	30	-	-	-
	Q	60	-	120	-
	P	100	-	200	-
	E	160	-	320	-
	E	200	-	400	-
Collector Base Cutoff Current at -V <sub>CB</sub> = 30 V	-I <sub>CBO</sub>	-	-	1	μA
Emitter Base Cutoff Current at -V <sub>EB</sub> = 3 V	-I <sub>EBO</sub>	-	-	1	μA
Collector Base Breakdown Voltage at -I <sub>C</sub> = 1 mA	-V <sub>(BR)CBO</sub>	40	-	-	V
Collector Emitter Breakdown Voltage at -I <sub>C</sub> = 1 mA	-V <sub>(BR)CEO</sub>	30	-	-	V
Emitter Base Breakdown Voltage at -I <sub>E</sub> = 1 mA	-V <sub>(BR)EBO</sub>	5	-	-	V
Collector Emitter Saturation Voltage at -I <sub>C</sub> = 2 A, -I <sub>B</sub> = 200 mA	-V <sub>CE(sat)</sub>	-	-	0.5	V
Base Emitter Saturation Voltage at -I <sub>C</sub> = 2 A, -I <sub>B</sub> = 200 mA	-V <sub>BE(sat)</sub>	-	-	2	V
Emitter Output Capacitance at -V <sub>CB</sub> = 10 V, f = 1 MHz	C <sub>ob</sub>	-	55	-	pF
Current Gain Bandwidth Product at -I <sub>C</sub> = 100 mA, -V <sub>CE</sub> = 5 V	f <sub>T</sub>	-	80	-	MHz

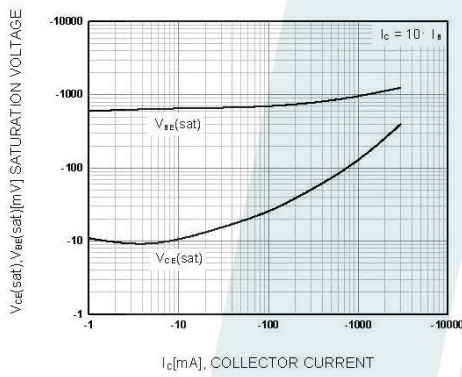
[Inquire@party-itl.com](mailto:Inquire@party-itl.com)



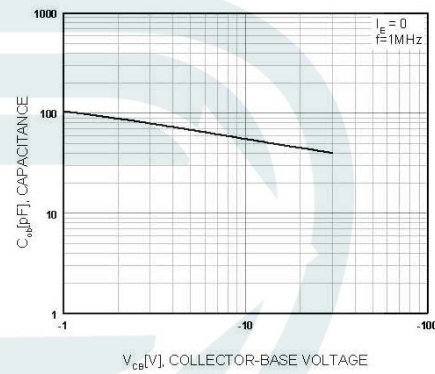
**Figure 1. Static Characteristic**



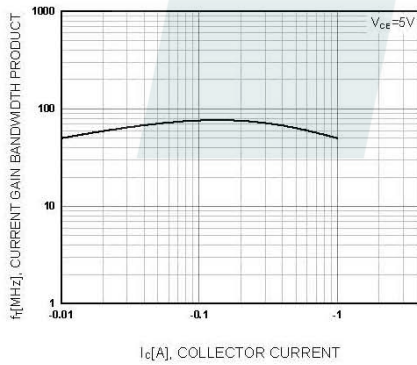
**Figure 2. DC current Gain**



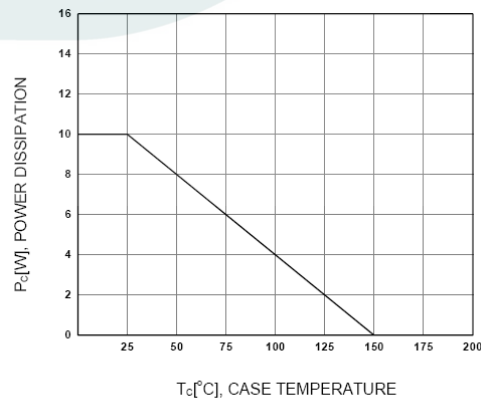
**Figure 3. Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage**



**Figure 4. Collector Output Capacitance**



**Figure 5. Current Gain Bandwidth Product**



**Figure 6 Power Derating**

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