

NPN General Purpose Amplifier
(continued)

Thermal Characteristics

TA = 25°C unless otherwise noted

Symbol	Characteristic	Max		Units
		2N3904	*PZT3904	
PD	Total Device Dissipation	625	1,000	mW
	Derate above 25°C	5.0	8.0	mW/°C
RθJC	Thermal Resistance, Junction to Case	83.3		°C/W
RθJA	Thermal Resistance, Junction to Ambient	200	125	°C/W

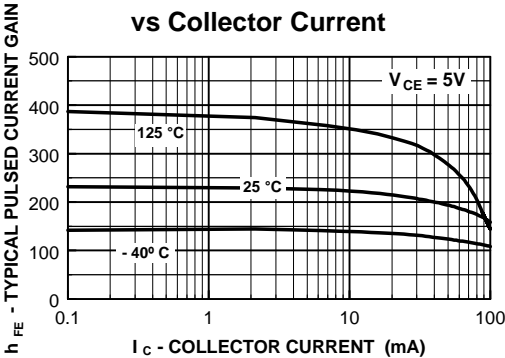
Symbol	Characteristic	Max		Units
		**MMBT3904	MMPQ3904	
PD	Total Device Dissipation	350	1,000	mW
	Derate above 25°C	2.8	8.0	mW/°C
RθJA	Thermal Resistance, Junction to Ambient Effective 4 Die Each Die	357		°C/W
			125	°C/W
			240	°C/W

* Device mounted on FR-4 PCB 36 mm X 18 mm X 1.5 mm; mounting pad for the collector lead min. 6 cm².

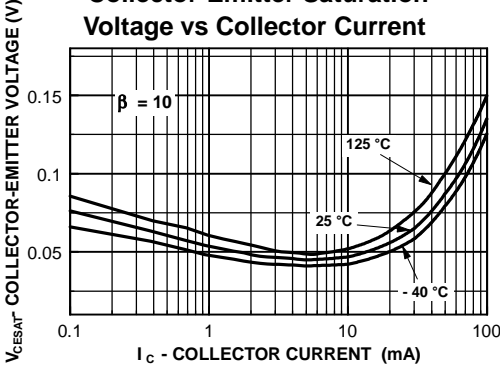
** Device mounted on FR-4 PCB 1.6" X 1.6" X 0.06."

Typical Characteristics

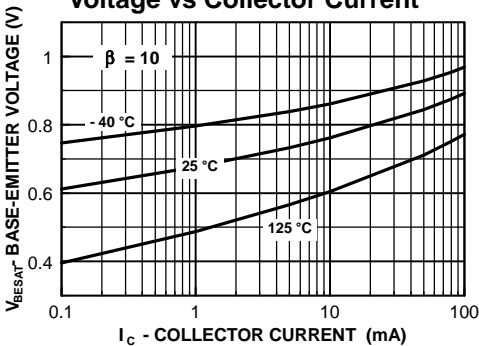
Typical Pulsed Current Gain
vs Collector Current



Collector-Emitter Saturation
Voltage vs Collector Current



Base-Emitter Saturation
Voltage vs Collector Current



Base-Emitter ON Voltage vs
Collector Current

