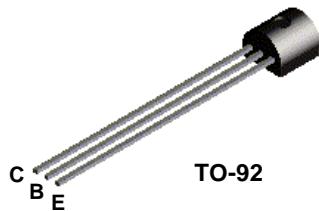
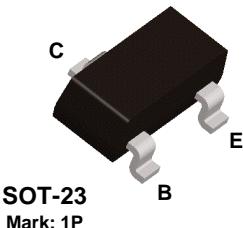




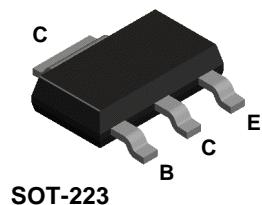
PN2222A



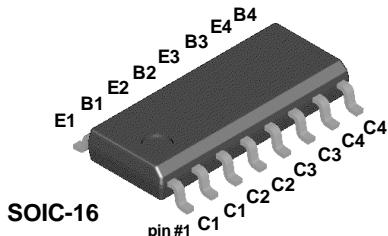
MMBT2222A



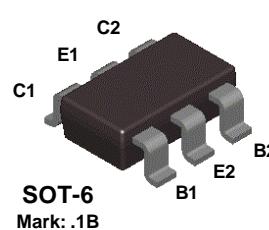
PZT2222A



MMPQ2222



NMT2222



NPN General Purpose Amplifier

This device is for use as a medium power amplifier and switch requiring collector currents up to 500 mA. Sourced from Process 19.

Absolute Maximum Ratings*

TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CEO}	Collector-Emitter Voltage	40	V
V _{CBO}	Collector-Base Voltage	75	V
V _{EBO}	Emitter-Base Voltage	6.0	V
I _C	Collector Current - Continuous	1.0	A
T _J , T _{stg}	Operating and Storage Junction Temperature Range	-55 to +150	°C

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

NOTES:

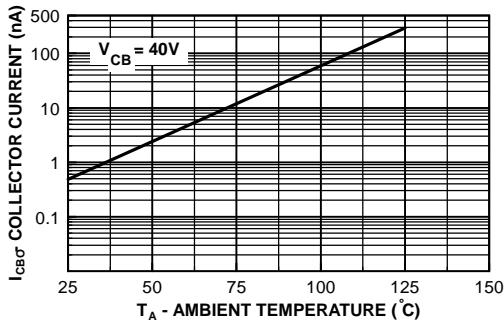
- 1) These ratings are based on a maximum junction temperature of 150 degrees C.
- 2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

NPN General Purpose Amplifier

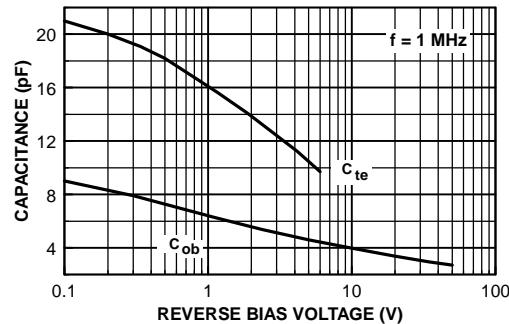
(continued)

Typical Characteristics (continued)

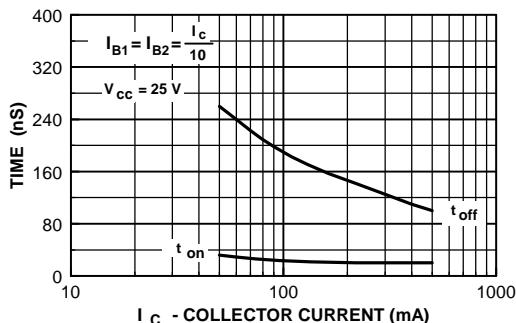
**Collector-Cutoff Current
vs Ambient Temperature**



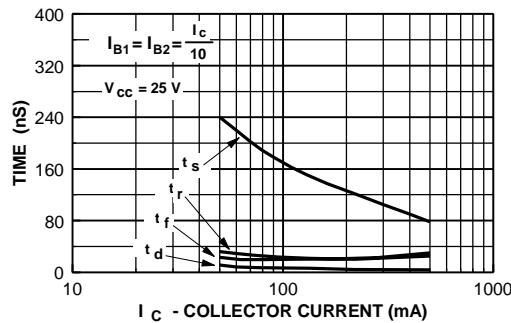
**Emitter Transition and Output
Capacitance vs Reverse Bias Voltage**



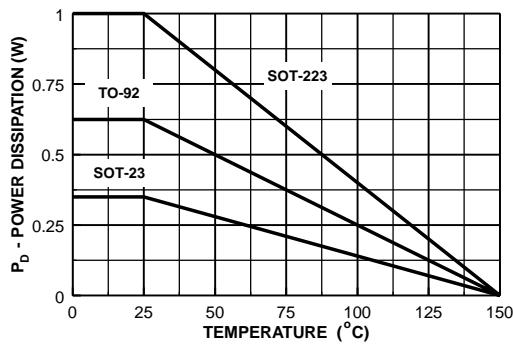
**Turn On and Turn Off Times
vs Collector Current**



**Switching Times
vs Collector Current**



**Power Dissipation vs
Ambient Temperature**



NPN General Purpose Amplifier
(continued)

Test Circuits

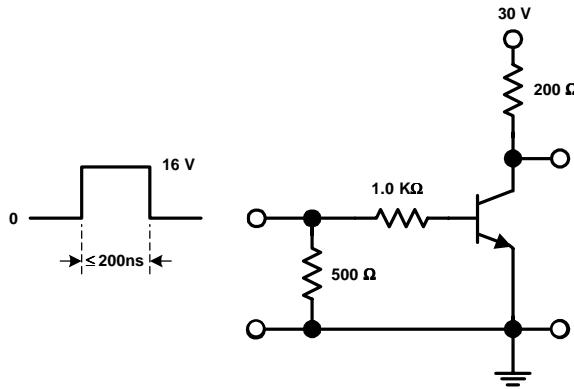


FIGURE 1: Saturated Turn-On Switching Time

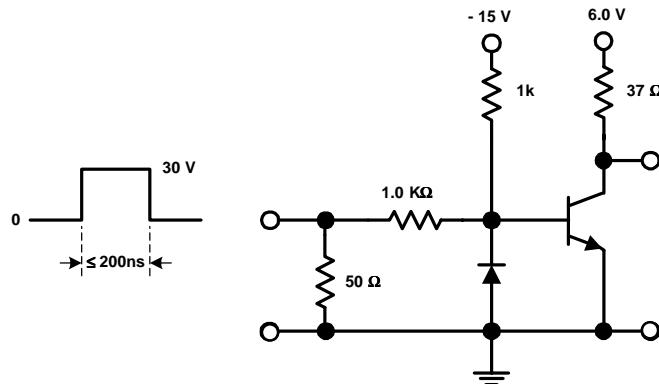


FIGURE 2: Saturated Turn-Off Switching Time

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