

**TYPES 2N2192, 2N2192A, 2N2193, 2N2193A,
 2N2194, 2N2194A, 2N2243, 2N2243A**
N-P-N EPITAXIAL PLANAR SILICON TRANSISTORS

**FOR MEDIUM-POWER, HIGH-SPEED SWITCHING
 AND AMPLIFIER APPLICATIONS**

- High Breakdown Voltage Combined With Very-Low Saturation Voltage
- DC Beta — Guaranteed From 100 μ a to 1 amp

***mechanical data**

THE COLLECTOR IS IN ELECTRICAL CONTACT WITH THE CASE.

ALL JEDEC TO-5 DIMENSIONS AND NOTES ARE APPLICABLE.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

***absolute maximum ratings at 25°C free-air temperature (unless otherwise noted)**

	2N2192 2N2192A	2N2193 2N2193A	2N2194 2N2194A	2N2243 2N2243A	UNIT
Collector-Base Voltage	60	80	60	120	v
Collector-Emitter Voltage (See Note 1)	40	50	40	80	v
Emitter-Base Voltage	5	8	5	7	v
Collector Current	1	1	1	1	a
Total Device Dissipation at (or below) 25°C Free-Air Temperature (See Note 2)	0.8	0.8	0.8	0.8	w
Total Device Dissipation at (or below) 25°C Case Temperature (See Note 3)	2.8	2.8	2.8	2.8	w
Total Device Dissipation at 100°C Case Temperature	1.6	1.6	1.6	1.6	w
Operating Collector Junction Temperature Range	-65°C to +200°C				
Storage Temperature Range	-65°C to +300°C				

NOTES: 1. This value applies when the emitter-base diode is open-circuited.
 2. Derate linearly to 200°C free-air temperature at the rate of 4.6 mw/°C.
 3. Derate linearly to 200°C case temperature at the rate of 16.0 mw/°C.

*Indicates JEDEC Registered Data.

