

Product Overview

TIP120: Medium Power NPN Darlington Bipolar Power Transistor

For complete documentation, see the data sheet.

The Darlington Bipolar Power Transistor is designed for general-purpose amplifier and low-speed switching applications. TIP120, TIP121, TIP122 (NPN); TIP125, TIP126, TIP127 (PNP) are complementary devices.

Features

- High DC Current Gain - $h_{FE} = 2500$ (typ) @ $I_C = 4.0$ Adc
- Collector-Emitter Sustaining Voltage @ 100 mA $V_{CEO(sus)} = 60$ Vdc (Min) TIP120, TIP125 $V_{CEO(sus)} = 80$ Vdc (Min) TIP121, TIP126 $V_{CEO(sus)} = 100$ Vdc (Min) TIP122, TIP127
- Low Collector-Emitter Saturation Voltage $V_{CE(sat)} = 2.0$ Vdc (Max) @ $I_C = 3.0$ Adc = 4.0 Vdc (Max) @ $I_C = 5.0$ Adc
- Monolithic Construction with Built-In Base-Emitter Shunt Resistors
- Compact TO-220 AB Package
- Pb-Free Packages are Available

Part Electrical Specifications

Product	Compliance	Status	Polarity	I_C Continuous (A)	$V_{(BR)CEO}$ Min (V)	$V_{CE(sat)}$ Max (V)	h_{FE} Min (k)	h_{FE} Max (k)	f_T Min (MHz)	Package Type
TIP120G	Pb-free	Active	NPN	5	60	2	1	-	4	TO-220-3
TIP120TU	Pb-free	Active	NPN	5	60	2	1	-	-	TO-220-3

For more information please contact your local sales support at www.onsemi.com.

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