Product Overview

2N6043: 8.0 A, 60 V NPN Darlington Bipolar Power Transistor

For complete documentation, see the data sheet.

The 8 A, 100 V NPN Darlington Bipolar Power Transistor is designed for general-purpose amplifier and low-speed switching applications. 2N6040, 2N6042 (PNP); and 2N6043, 2N6045 (NPN) are complementary devices.

Features

- High DC Current Gain -
  h_{FE} = 2500 (Typ) @ I_C = 4.0 Adc
- Collector-Emitter Sustaining Voltage - @ 100 mAdc -
  $V_{CEO(sus)}$ = 60 Vdc (Min) - 2N6040, 2N6043
  $V_{CEO(sus)}$= 80 Vdc (Min) - 2N6041, 2N6044
  $V_{CEO(sus)}$= 100 Vdc (Min) - 2N6042, 2N6045
- Low Collector-Emitter Saturation Voltage -
  $V_{CE(sat)}$ = 2.0 Vdc (Max) @ I_C = 4.0 Adc - 2N6040,41, 2N6043,44
  $V_{CE(sat)}$= 2.0 Vdc (Max) @ I_C = 3.0 Adc - 2N6042, 2N6045
- Monolithic Construction with Built-In Base-Emitter Shunt Resistors
- 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
2N6043G	Pb-free	Active	NPN	8	60	2	1	20	4	TO-220-3

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

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