

Product Overview

MJD210: 5.0 A, 25 V PNP Bipolar Power Transistor

For complete documentation, see the data sheet.

The Bipolar Power Transistor is designed for low voltage, low power, high gain audio amplifier applications. The MJD200 (NPN) and MJD210 (PNP) are complementary devices.

Features

- Collector-Emitter Sustaining Voltage - $V_{CE(sus)} = 25 \text{ Vdc (Min) @ } I_C = 10 \text{ mAdc}$
- High DC Current Gain - $h_{FE} = 70 \text{ (Min) @ } I_C = 500 \text{ mAdc}$
 $= 45 \text{ (Min) @ } I_C = 2 \text{ Adc}$
 $= 10 \text{ (Min) @ } I_C = 5 \text{ Adc}$
- Low Collector-Emitter Saturation Voltage - $V_{CE(sat)}$
 $= 0.30 \text{ Vdc (Max) @ } I_C = 500 \text{ mAdc}$
 $= 0.75 \text{ Vdc (Max) @ } I_C = 2.0 \text{ Adc}$
- High Current-Gain - Bandwidth Product - $f_T = 65 \text{ MHz (Min) @ } I_C = 100 \text{ mAdc}$
- Annular Construction for Low Leakage - $I_{CBO} = 100 \text{ nAdc @ Rated } V_{CB}$
- NJV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free and are RoHS Compliant
- MJD200 is the complementary NPN device

Part Electrical Specifications

Product	Compliance	Status	Polarity	Type	$V_{CE(sat) \text{ Max}}$ (V)	$I_C \text{ Cont.}$ (A)	$V_{CEO \text{ Min}}$ (V)	V_{CBO} (V)	V_{EBO} (V)	$V_{BE(sat)}$ (V)	$V_{BE(on)}$ (V)	$h_{FE \text{ Min}}$	$h_{FE \text{ Max}}$	$f_T \text{ Min}$ (MHz)	$P_{TM \text{ Max}}$ (W)	Package Type
MJD210G	Pb-free	Active	PNP	General Purpose	1.8	5	25	40	8	2.5	1.6	45	180	3	12.5	DPA K-3
	Halide free															
MJD210RLG	Pb-free	Active	PNP	General Purpose	1.8	5	25	40	8	2.5	1.6	45	180	3	12.5	DPA K-3
	Halide free															
MJD210T4G	Pb-free	Active	PNP	General Purpose	1.8	5	25	40	8	2.5	1.6	45	180	3	12.5	DPA K-3
	Halide free															
MJD210TF	Pb-free	Active	PNP	General Purpose	1.8	5	25	40	8	2.5	1.6	45	180	3	12.5	DPA K-3
	Halide free															
NJVMJD210T4G	AEC Qualified	Active	PNP	General Purpose	1.8	5	25	40	8	2.5	1.6	45	180	3	12.5	DPA K-3
	PPAP Capable															
	Pb-free															
	Halide free															

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

Created on: 6/18/2019