

CP704V-CMPTA56

PNP - High Current Transistor Die 0.5 Amp, 80 Volt

The CP704V-CMPTA56 is a silicon PNP high current transistor designed for general purpose audio amplifier applications.



MECHANICAL SPECIFICATIONS:

Die Size	22 x 22 MILS
Die Thickness	7.1 MILS
Base Bonding Pad Size	3.7 x 3.7 MILS
Emitter Bonding Pad Size	4.2 x 4.2 MILS
Top Side Metalization	AI – 20,000Å
Back Side Metalization	Au – 9,000Å
Scribe Alley Width	1.97 MILS
Wafer Diameter	5 INCHES
Gross Die Per Wafer	35,100

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	80	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	4.0	V
Continuous Collector Current	IC	500	mA
Continuous Base Current	I_{B}	100	mA
Peak Base Current	I _{BM}	200	mA
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +175	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

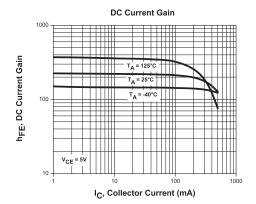
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SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS			
I _{CBO}	V _{CB} =80V		100	nA			
ICEO	V _{CE} =60V		100	nA			
BV CEO	I _C =1.0mA	80		V			
BV_{EBO}	I _E =100μA	4.0		V			
V _{CE} (SAT)	I _C =100mA, I _B =10mA		0.25	V			
V _{BE(ON)}	V _{CE} =1.0V, I _C =100mA		1.20	V			
h _{FE}	V_{CE} =1.0V, I_{C} =10mA	100					
hFE	V _{CE} =1.0V, I _C =100mA	100					
f_{T}	V _{CE} =1.0V, I _C =100mA, f=100MHz	50		MHz			

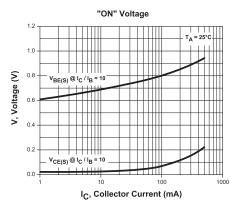
CP704V-CMPTA56

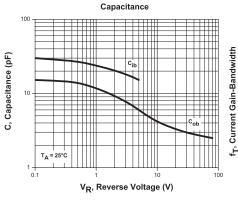
Typical Electrical Characteristics

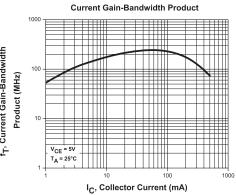


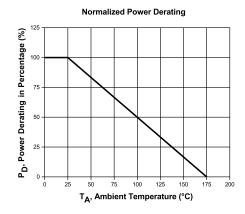
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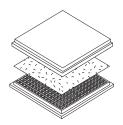




R0 (28-August 2018)

BARE DIE PACKING OPTIONS

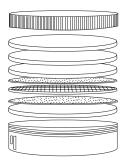




BARE DIE IN TRAY (WAFFLE) PACK

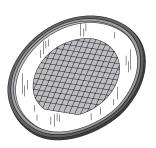
CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

CM: Singulated die in tray (waffle) pack 100% visually inspected as per MIL-STD-750, (method 2072 transistors, method 2073 diodes). (example: CP211-PART NUMBER-CM)



UNSAWN WAFER

WN: Full wafer, unsawn, 100% tested with reject die inked. (example: CP211-PART NUMBER-WN)



SAWN WAFER ON PLASTIC RING

WR: Full wafer, sawn and mounted on plastic ring, 100% tested with reject die inked.

(example: CP211-PART NUMBER-WR)

Please note: Sawn Wafer on Metal Frame (WS) is possible as a special order. Please contact your Central Sales Representative at 631-435-1110.



Visit the Central website for a complete listing of specifications: www.centralsemi.com/bdspecs

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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