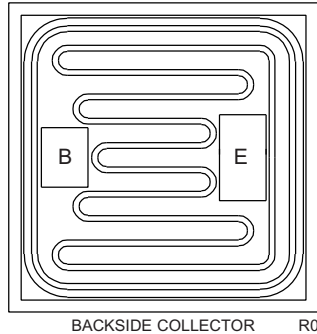


# CP734V-CMPT404A

## PNP - Small Signal Transistor Die

### 150mA, 35 Volt

The CP734V-CMPT404A is a silicon PNP transistor designed for chopper applications.



#### MECHANICAL SPECIFICATIONS:

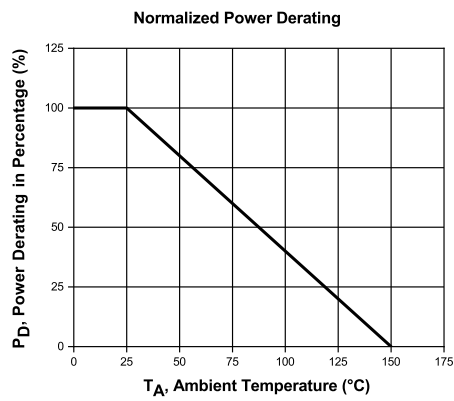
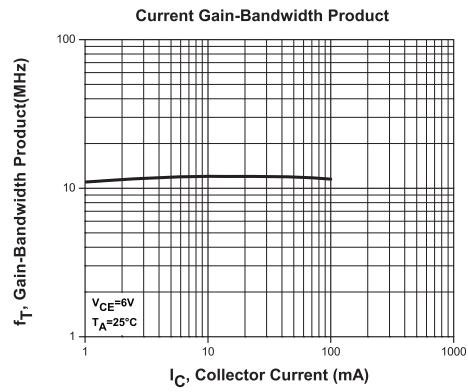
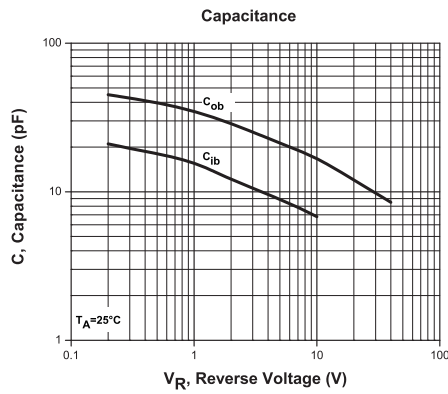
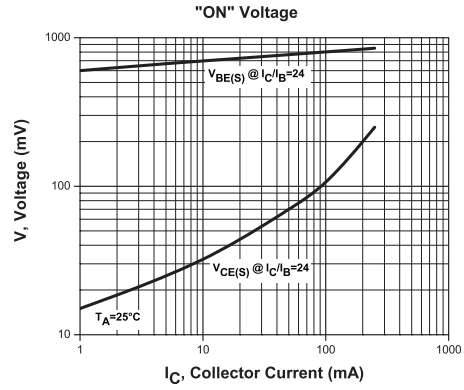
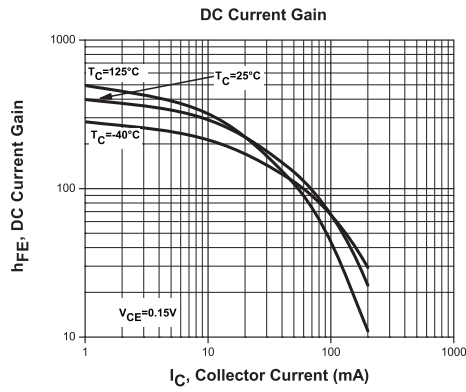
Die Size	31.5 x 31.5 MILS
Die Thickness	7.0 MILS
Base Bonding Pad Size	4.7 x 6.7 MILS
Emitter Bonding Pad Size	4.7 x 8.7 MILS
Top Side Metalization	Al – 30,000Å
Back Side Metalization	Au – 9,000Å
Scribe Alley Width	2.0 MILS
Wafer Diameter	5 INCHES
Gross Die Per Wafer	16,986

MAXIMUM RATINGS: (T <sub>A</sub> =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V <sub>CBO</sub>	40	V
Collector-Emitter Voltage	V <sub>CEO</sub>	35	V
Emitter-Base Voltage	V <sub>EBO</sub>	25	V
Continuous Collector Current	I <sub>C</sub>	150	mA
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T <sub>A</sub> =25°C unless otherwise noted)						
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS	
I <sub>CBO</sub>	V <sub>CB</sub> =10V			100	nA	
I <sub>EBO</sub>	V <sub>EB</sub> =10V			100	nA	
BV <sub>CBO</sub>	I <sub>C</sub> =10μA	40			V	
BV <sub>CEO</sub>	I <sub>C</sub> =10mA	35			V	
BV <sub>EBO</sub>	I <sub>E</sub> =10μA	25			V	
V <sub>CE(SAT)</sub>	I <sub>C</sub> =12mA, I <sub>B</sub> =400μA			0.15	V	
V <sub>CE(SAT)</sub>	I <sub>C</sub> =24mA, I <sub>B</sub> =1.0mA			0.20	V	
V <sub>BE(SAT)</sub>	I <sub>C</sub> =12mA, I <sub>B</sub> =400μA			0.85	V	
V <sub>BE(SAT)</sub>	I <sub>C</sub> =24mA, I <sub>B</sub> =1.0mA			1.00	V	
h <sub>FE</sub>	V <sub>CE</sub> =0.15V, I <sub>C</sub> =12mA	100		400		
C <sub>ob</sub>	V <sub>CB</sub> =6.0V, I <sub>E</sub> =0, f=1.0MHz		40		pF	
t <sub>d</sub>	V <sub>CC</sub> =10V, I <sub>C</sub> =10mA, I <sub>B1</sub> =1.0mA		150		ns	
t <sub>r</sub>	V <sub>CC</sub> =10V, I <sub>C</sub> =10mA, I <sub>B1</sub> =1.0mA		400		ns	
t <sub>s</sub>	V <sub>CC</sub> =10V, I <sub>C</sub> =10mA, I <sub>B1</sub> =I <sub>B2</sub> =1.0mA		3.0		μs	
t <sub>f</sub>	V <sub>CC</sub> =10V, I <sub>C</sub> =10mA, I <sub>B1</sub> =I <sub>B2</sub> =1.0mA		750		ns	

# CP734V-CMPT404A

## Typical Electrical Characteristics



## BARE DIE PACKING OPTIONS

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### 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)

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### UNSAWN WAFER

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

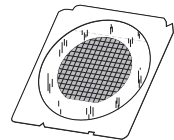
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### SAWN WAFER ON PLASTIC RING

**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.centrasemi.com/bdspecs](http://www.centrasemi.com/bdspecs)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

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### 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).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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**Worldwide Distributors:**  
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