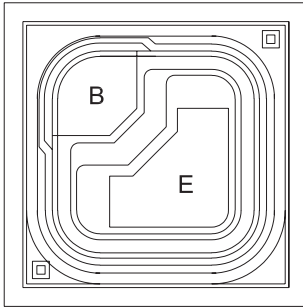


CP788X-BC556B

PNP - General Purpose Transistor Die

The CP788X-BC556B is a silicon PNP transistor designed for general purpose applications.



BACKSIDE COLLECTOR R0

MECHANICAL SPECIFICATIONS:

Die Size	13.7 x 13.7 MILS
Die Thickness	5.9 MILS
Base Bonding Pad Size	4.0 x 4.0 MILS
Emitter Bonding Pad Size	5.5 x 5.5 MILS
Top Side Metalization	Al-Si – 17,000Å
Back Side Metalization	Au – 12,000Å
Scribe Alley Width	1.8 MILS
Wafer Diameter	6 INCHES
Gross Die Per Wafer	126,028

MAXIMUM RATINGS: (T_A=25°C)

Collector-Base Voltage	V _{CBO}	80	V
Collector-Emitter Voltage	V _{CEO}	65	V
Emitter-Base Voltage	V _{EBO}	5.0	V
Continuous Collector Current	I _C	100	mA
Peak Collector Current	I _{CM}	200	mA
Peak Base Current	I _{BM}	200	mA
Operating and Storage Junction Temperature	T _J , T _{stg}	-55 to +150	°C

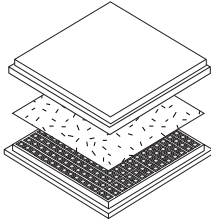
SYMBOL

UNITS

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CES}	V _{CE} =40V		100	nA
BV _{CEO}	I _C =2.0mA, I _B =0	65		V
BV _{CBO}	I _C =100μA	80		V
BV _{EBO}	I _E =100μA, I _C =0	5.0		V
V _{CE(SAT)}	I _C =10mA, I _B =0.5mA		0.30	V
V _{CE(SAT)}	I _C =100mA, I _B =5.0mA		0.65	V
V _{BE(ON)}	V _{CE} =5.0V, I _C =2.0mA	0.55	0.70	V
V _{BE(ON)}	V _{CE} =5.0V, I _C =10mA		0.82	V
h _{FE}	V _{CE} =5.0V, I _C =2.0mA	180	460	
C _{ob}	V _{CB} =10V, I _C =0, f=1.0MHz		6.0	pF
NF	V _{CE} =5.0V, I _C =200μA, R _S =2.0kΩ, f=1.0kHz, BW=200Hz		10	dB
h _{fe}	V _{CE} =5.0V, I _C =2.0mA, f=1.0KHz	240	500	

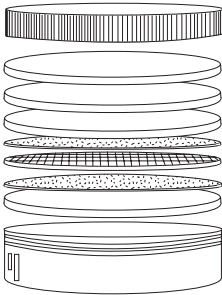
BARE DIE PACKING OPTIONS



BARE DIE IN TRAY (WAFFLE) PACK

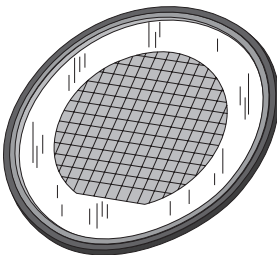
CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

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

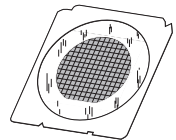
WN: Full wafer, unsawn, 100% tested with reject die inked.
(example: CP211-PART NUMBER-WN)



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.centrasemi.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 quick ship samples (2nd day air)
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- 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).

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