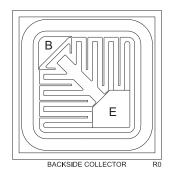


CP595-2N5680

PNP - High Current Transistor Die 1.0 Amp, 120 Volt

The CP595-2N5680 is a silicon PNP transistor designed for and high current applications.



MECHANICAL SPECIFICATIONS:

Die Size	30 x 30 MILS
Die Thickness	7.0 MILS
Base Bonding Pad Size	6.0 x 6.0 MILS
Emitter Bonding Pad Size	7.5 x 7.5 MILS
Top Side Metalization	AI – 30,000Å
Back Side Metalization	Au – 10,000Å
Scribe Alley Width	2.4 MILS
Wafer Diameter	4 INCHES
Gross Die Per Wafer	12,500

MAXIMUM RATINGS:	(T _△ =25°C unless otherwise noted)
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	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	120	V
Collector-Emitter Voltage	V_{CEO}	120	V
Emitter-Base Voltage	V_{EBO}	4.0	V
Continuous Collector Current	IC	1.0	Α
Continuous Base Current	Ι _Β	0.5	Α
Operating and Storage Junction Temperature	T.I. Teta	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T	「 _A =25°C	unless otherwise noted)
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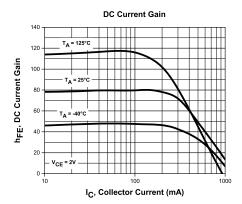
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =120V		1.0	μΑ
I _{CEV}	V_{CE} =120V, V_{EB} =1.5V		1.0	μΑ
ICEO	V _{CE} =80V		10	μΑ
I _{EBO}	V _{EB} =4.0V		1.0	μΑ
BV CEO	I _C =10mA	120		V
V _{CE} (SAT)	I _C =250mA, I _B =25mA		0.6	V
V _{CE(SAT)}	I _C =500mA, I _B =50mA		1.0	V
V _{CE(SAT)}	I _C =1.0A, I _B =200mA		2.0	V
V _{BE(ON)}	V _{CE} =2.0V I _C =250mA		1.0	V
h _{FE}	V _{CE} =2.0V, I _C =250mA	40	150	
h _{FE}	V _{CE} =2.0V, I _C =1.0A	5.0		
h _{fe}	V_{CE} =1.5V, I_{C} =0.2A, f=1.0kHz	40		
f _T	V_{CE} =10V, I_{C} =100mA, f=10MHz	30		MHz
C_{ob}	V_{CB} =20V, I_E =0, f=1.0MHz		50	pF

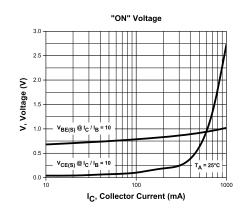
CP595-2N5680

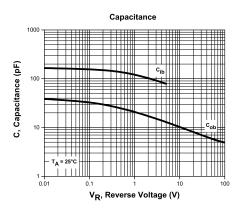
Typical Electrical Characteristics

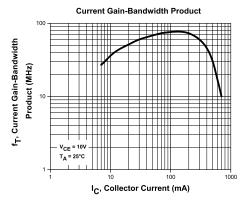


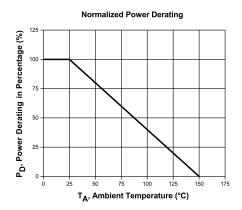
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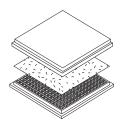






BARE DIE PACKING OPTIONS

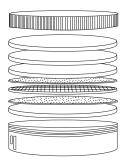




BARE DIE IN TRAY (WAFFLE) PACK

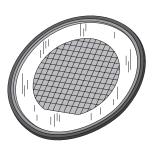
CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

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).

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