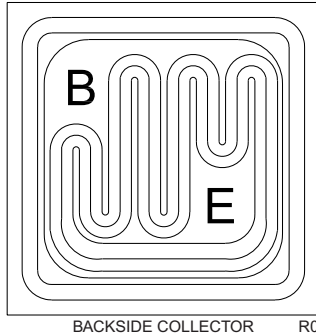


CP235-2N3715

NPN - High Current Transistor Die

10 Amp, 60 Volt

The CP235-2N3715 die is a silicon NPN transistor designed for high current applications.



MECHANICAL SPECIFICATIONS:

Die Size	106 x 106 MILS
Die Thickness	12 MILS
Base Bonding Pad Size	25 x 33 MILS
Emitter Bonding Pad Size	30 x 36 MILS
Top Side Metalization	Al - 50,000Å
Back Side Metalization	Ag - 10,000Å
Scribe Alley Width	4.0 mils
Wafer Diameter	4 INCHES
Gross Die Per Wafer	920

MAXIMUM RATINGS: (T_C=25°C)

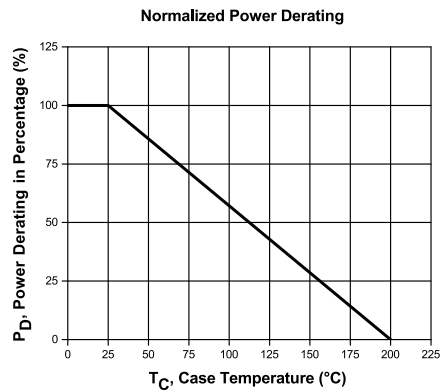
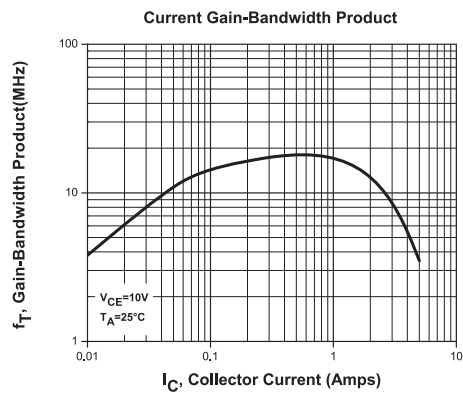
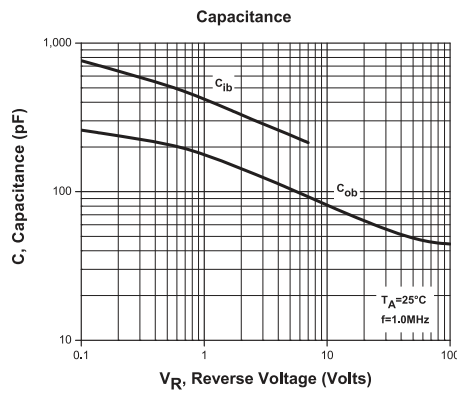
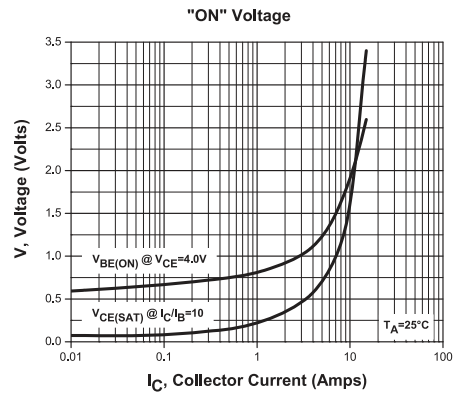
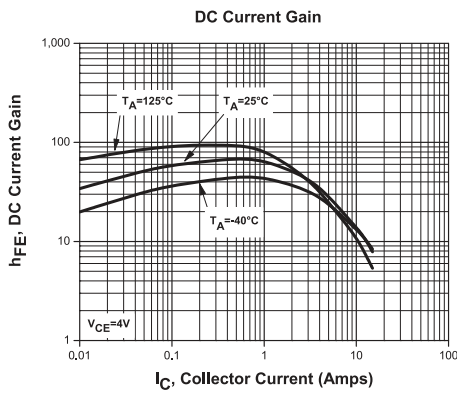
	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	80	V
Collector-Emitter Voltage	V _{CEO}	60	V
Emitter-Base Voltage	V _{EBO}	7.0	V
Continuous Collector Current	I _C	10	A
Continuous Base Current	I _B	4.0	A
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +200	°C

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _{CEV}	V _{CE} =100V, V _{BE} =1.5V			1.0	mA
I _{EBO}	V _{EB} =7.0V			5.0	mA
BV _{CEO}	I _C =200mA	60			V
V _{CE(SAT)}	I _C =5.0A, I _B =0.5A			0.8	V
V _{BE(SAT)}	I _C =5.0A, I _B =0.5A			1.5	V
V _{BE(ON)}	V _{CE} =2.0V, I _C =3.0A			1.5	V
h _{FE}	V _{CE} =2.0V, I _C =1.0A	50		150	
h _{FE}	V _{CE} =2.0V, I _C =3.0A	30			
f _T	V _{CE} =10V, I _C =0.5A, f=1.0MHz	4.0			MHz
t _r	I _C =5.0A, I _{B1} =I _{B2} =0.5A		0.4		µs
t _s	I _C =5.0A, I _{B1} =I _{B2} =0.5A		0.3		µs
t _f	I _C =5.0A, I _{B1} =I _{B2} =0.5A		0.4		µs

CP235-2N3715

Typical Electrical Characteristics



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)
- 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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms

Product End of Life Notification

PDN ID:	PDN01242
Notification Date:	8/11/22
Last Buy Date:	2/11/23
Last Shipment Date	8/11/23

Summary: The following bare die transistor devices are discontinued and now classified as of End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Portfolio Management. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

*** All Plating types (PBFREE, TIN/LEAD) for each item listed are included in this notice.**

Central Part Number	Suggested Replacement
CPP55-BC177-CT	N/A
CP188-BC546B-CM	CP388X-BC546B-CT
CP212-CZTA44HC-CT	N/A
CP235-2N3055-CT	N/A
CP235-2N3715-CT	N/A
CP588-BC556B-CM	CP788X-BC556B-CT
CP608-H2N3741-CM	N/A
CP608-TIP32C-CM	N/A
CP608-TIP32C-CT	N/A
CP608-TIP32C-WN	N/A
CP608-2N3741-CT	N/A
CP608-2N6475-CT	N/A
CP611-TIP42-CT	N/A
CP611-TIP42C-CT	N/A
CP611-TIP42C-WN	N/A
CP611-2N5955-CT	N/A
CP611-2N6107-CM	N/A
CP611-2N6107-CT	N/A
CP645-MJE15031-CM	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. If you would like assistance, please visit <https://my.centrasemi.com/submit-inquiry?type=ER> to submit an online inquiry.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.