

CP235-2N3055 NPN - High Current Transistor Die 15 Amp, 60 Volt

The CP235-2N3055 die is a silicon NPN transistor designed for high current applications.

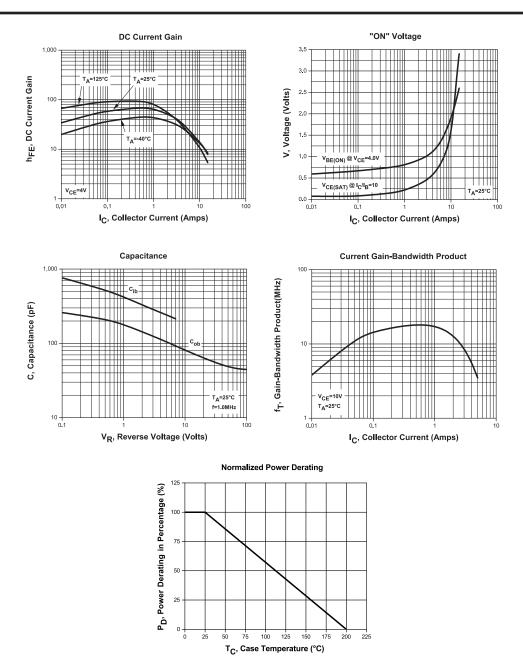
		MECHANIC	AL SPECIFICAT	IONS:	
		Die Size		106 x 106 MILS	
		Die Thickne	SS	12 MILS	
		Base Bondir	ng Pad Size	25 x 33 MILS	
		Emitter Bone	ding Pad Size	30 x 36 MILS	
Back Scribe		Top Side Metalization		AI – 50,000Å	
		Back Side M	letalization	Ag – 10,000Å	
		Scribe Alley Width		4.0 mils	
		Wafer Diameter		4 INCHES	
		Gross Die P	er Wafer	920	
MAXIMUM R	ATINGS: (T _C =25°C)		SYMBOL		UNITS
Collector-Bas	e Voltage		V _{CBO}	100	V
Collector-Emi	Collector-Emitter Voltage			70	V
Collector-Emi	Collector-Emitter Voltage			60	V
Emitter-Base	Emitter-Base Voltage			7.0	V
Continuous C	Continuous Collector Current			15	А
Continuous Base Current			Ι _Β	7.0	А
Operating and Storage Junction Temperature			T _J , T _{stg}	-65 to +200	°C
ELECTRICAL		: (T _C =25°C	unless otherwise	e noted)	
SYMBOL	TEST CONDITION		MIN	MAX	UNITS
ICEV	V _{CE} =100V, V _{EB} =1	.5V		1.0	mA
ICEO	V _{CE} =30V			0.7	mA
I _{EBO}	V _{EB} =7.0V			5.0	mA
BVCEO	I _C =200mA		60		V
BVCER	I_{C} =200mA, R_{BE} =100 Ω		70		V
V _{CE} (SAT)	I _C =4.0A, I _B =400mA			1.1	V
V _{CE(SAT)}	I _C =10A, I _B =3.3A			3.0	V
V _{BE(ON)}	V _{CE} =4.0V, I _C =4.0A			1.5	V
h _{FE}	V _{CE} =4.0V, I _C =4.0A		20	70	
hFE	V _{CE} =4.0V, I _C =10A		5.0		
h _{fe}	V_{CE} =4.0V, I _C =1.0A, f=1.0kHz		15	120	
fT	V_{CE} =10V, I _C =0.5A, f=1.0MHz		2.5		MHz
^f hfe	V _{CE} =4.0V, I _C =1.0A	, f=1.0kHz	10		kHz
I _{s/b}	V _{CE} =40V, t=1.0s		2.87		A

R0 (4-March 2016)

CP235-2N3055 Typical Electrical Characteristics



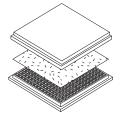
www.centralsemi.com



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BARE DIE PACKING OPTIONS



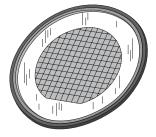


BARE DIE IN TRAY (WAFFLE) PACK

- 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-<u>PART NUMBER</u>-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

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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

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Product End of Life Notification

PDN ID:	PDN01242
Notification Date:	8/11/22
Last Buy Date:	
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.centralsemi.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.