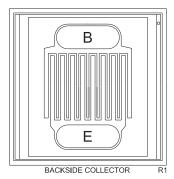


CP337V-2N3725

NPN - General Purpose Transistor Die

The CP337V-2N3725 is a silicon NPN transistor designed for general purpose switching applications.



MECHANICAL SPECIFICATIONS:

Die Size	29 x 29 MILS
Die Thickness	7.1 MILS
Base Bonding Pad Size	11.8 x 4.5 MILS
Emitter Bonding Pad Size	11.8 x 4.5 MILS
Top Side Metalization	AI – 30,000Å
Back Side Metalization	Au-As – 13,000Å
Scribe Alley Width	2.0 MILS
Wafer Diameter	4 INCHES
Gross Die Per Wafer	13,192

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	80	V
Collector-Emitter Voltage	V _{CEO}	50	V
Emitter-Base Voltage	V _{FBO}	6.0	V
Continuous Collector Current	IC	1.2	Α
Peak Collector Current	ICM	1.75	Α
Operating and Storage Junction Temperature	T _{.I} , T _{sta}	-65 to +150	°C

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_{B}	V _{CE} =80V		10	μΑ
ICBO	V _{CB} =60V		1.7	μΑ
ICES	V _{CE} =80V		10	μΑ
BV _{CBO}	I _C =10μA	80		V
BVCES	I _C =10μA	80		V
BVCEO	I _C =10mA	50		V
BVEBO	I _E =10μA	6.0		V
V _{CE} (SAT)	I_C =10mA, I_B =1.0mA		0.25	V
VCE(SAT)	I_C =100mA, I_B =10mA		0.26	V
VCE(SAT)	I_C =300mA, I_B =30mA		0.40	V
VCE(SAT)	I_C =500mA, I_B =50mA		0.52	V
VCE(SAT)	I_C =800mA, I_B =80mA		0.80	V
VCE(SAT)	I _C =1.0A, I _B =100mA		0.95	V
V _{BE} (SAT)	I_C =10mA, I_B =1.0mA		0.76	V
V _{BE} (SAT)	I_C =100mA, I_B =10mA		0.86	V
V _{BE} (SAT)	I_C =300mA, I_B =30mA		1.1	V
V _{BE} (SAT)	I_C =500mA, I_B =50mA	0.80	1.1	V
V _{BE} (SAT)	I_C =800mA, I_B =80mA		1.5	V
V _{BE} (SAT)	I _C =1.0A, I _B =100mA		1.7	V
, ,				R0 (6-June 2016)

CP337V-2N3725

Typical Electrical Characteristics

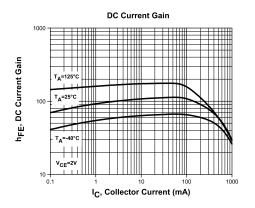


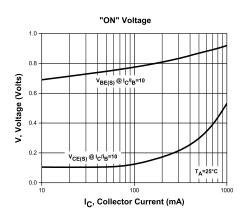
ELECTRICAL	L CHARACTERISTICS - Continued: (TA	=25°C unless other	rwise noted)	
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
h _{FE}	V _{CE} =1.0V, I _C =10mA	30		
h _{FE}	V _{CE} =1.0V, I _C =100mA	60	150	
h _{FE}	V _{CE} =1.0V, I _C =300mA	40		
h _{FE}	V _{CE} =1.0V, I _C =500mA	35		
h _{FE}	V_{CE} =2.0V, I_{C} =800mA	20		
h _{FE}	V_{CE} =5.0V, I_{C} =1.0A	25		
f_{T}	V_{CE} =10V, I_{C} =50mA, f=100MHz	300		MHz
C _{ob}	V_{CB} =10V, I_E =0, f=1.0MHz		10	pF
C _{ib}	V_{EB} =0.5V, I_{C} =0, f=1.0MHz		55	pF
^t d	V_{CC} =30V, I_{C} =500mA, I_{B1} =50mA		10	ns
t _r	V_{CC} =30V, I_{C} =500mA, I_{B1} =50mA		30	ns
t _{on}	V_{CC} =30V, I_{C} =500mA, I_{B1} =50mA		35	ns
ts	V _{CC} =30V, I _C =500mA, I _{B1} =I _{B2} =50mA		50	ns
t _f	V_{CC} =30V, I_{C} =500mA, I_{B1} = I_{B2} =50mA		25	ns
t _{off}	V _{CC} =30V, I _C =500mA, I _{B1} =I _{B2} =50mA		60	ns

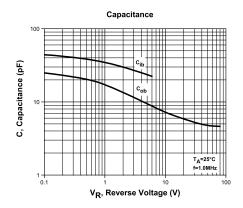
CP337V-2N3725Typical Electrical Characteristics

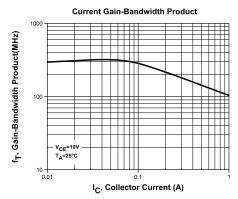


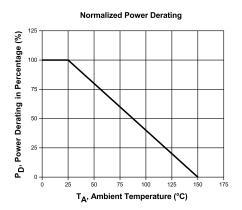
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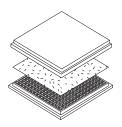






BARE DIE PACKING OPTIONS

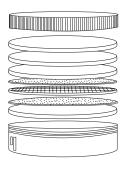




BARE DIE IN TRAY (WAFFLE) PACK

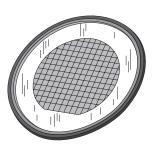
CT: Singulated die in tray (waffle) pack. (example: CP211-PART NUMBER-CT)

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

R2 (3-April 2017)

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).

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.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.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.centralsemi.com/terms

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Product End of Life Notification

PDN ID:	PDN01166
Notification Date:	3/11/21
Last Buy Date:	9/11/21
Last Shipment Date	3/11/22

Summary: The CP337V wafer process is discontinued and now classified as 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 Management Process. 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	Replacement
CP337V-2N3725-CT	N/Ā
CP337V-2N3725-CT20	N/A
CP337V-2N4013-CT20	N/A
MPQ3725	N/A
MPQ3725A	N/A
2N3725	N/A
2N3725A	N/A
2N4013	N/A
2N4014	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. Please email your requests to engineering@centralsemi.com.

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.

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