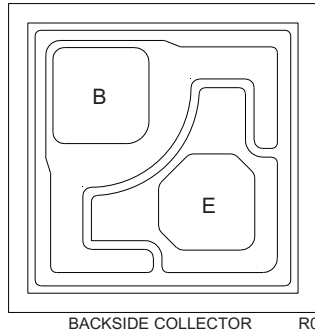


CP792V-2N3906

PNP - General Purpose Transistor Die

0.2 Amp, 40 Volt

The CP792V-2N3906 is a silicon PNP transistor designed for general purpose applications.



MECHANICAL SPECIFICATIONS:

Die Size	11 x 11 MILS
Die Thickness	7.1 MILS
Base Bonding Pad Size	3.74 x 3.74 MILS
Emitter Bonding Pad Size	3.74 x 3.74 MILS
Top Side Metalization	Al – 30,000Å
Back Side Metalization	Au – 18,000Å
Scribe Alley Width	1.5 MILS
Wafer Diameter	4 INCHES
Gross Die Per Wafer	93,826

MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	V _{CEO}	40	V
Emitter-Base Voltage	V _{EBO}	5.0	V
Continuous Collector Current	I _C	200	mA
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CEV}	V _{CE} =30V, V _{EB} =3.0V		50	nA
BV _{CBO}	I _C =10μA	40		V
BV _{CEO}	I _C =1.0mA	40		V
BV _{EBO}	I _E =10μA	5.0		V
V _{CE} (SAT)	I _C =10mA, I _B =1.0mA		0.25	V
V _{CE} (SAT)	I _C =50mA, I _B =5.0mA		0.40	V
V _{BE} (SAT)	I _C =10mA, I _B =1.0mA	0.65	0.85	V
V _{BE} (SAT)	I _C =50mA, I _B =5.0mA		0.95	V
h _{FE}	V _{CE} =1.0V, I _C =0.1mA	60		
h _{FE}	V _{CE} =1.0V, I _C =1.0mA	80		
h _{FE}	V _{CE} =1.0V, I _C =10mA	100	300	
h _{FE}	V _{CE} =1.0V, I _C =50mA	60		
h _{FE}	V _{CE} =1.0V, I _C =100mA	30		
h _{fe}	V _{CE} =10V, I _C =1.0mA, f=1.0kHz	100	400	
f _T	V _{CE} =20V, I _C =10mA, f=100MHz	250		MHz
C _{ob}	V _{CB} =5.0V, I _E =0, f=100kHz		4.5	pF
C _{ib}	V _{BE} =0.5V, I _C =0, f=100kHz		10	pF

R0 (25-August 2016)

CP792V-2N3906

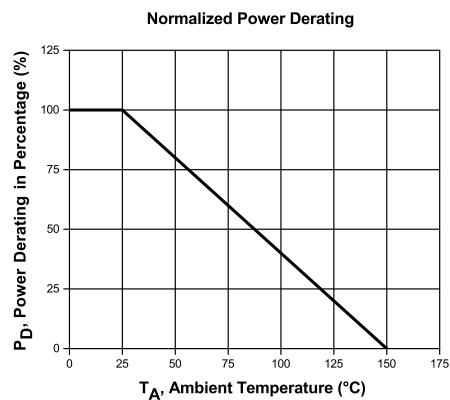
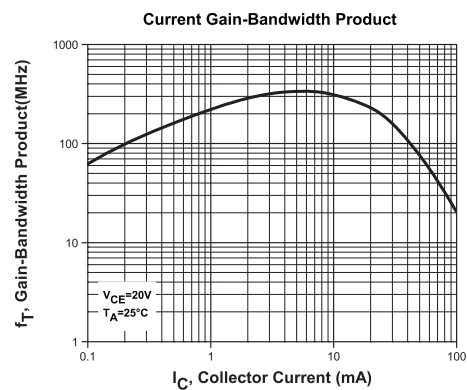
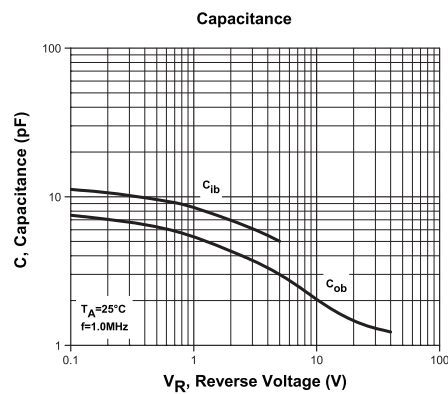
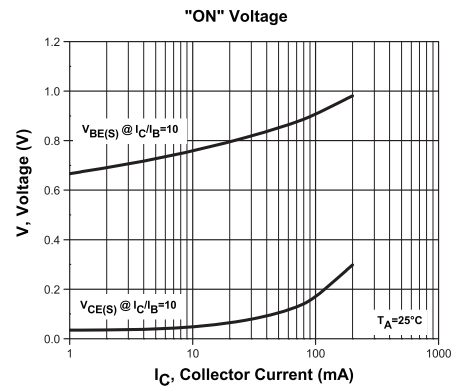
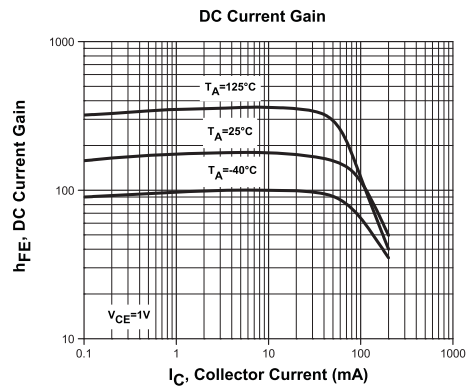
Typical Electrical Characteristics

ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^{\circ}\text{C}$)

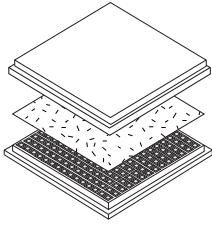
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
NF	$V_{CE}=5.0\text{V}$, $I_C=100\mu\text{A}$, $R_S=1.0\text{k}\Omega$, $f=10\text{Hz}$ to 15.7kHz		4.0	dB
t_{on}	$V_{CC}=3.0\text{V}$, $V_{BE}=0.5\text{V}$, $I_C=10\text{mA}$, $I_{B1}=1.0\text{mA}$		70	ns
t_{off}	$V_{CC}=3.0\text{V}$, $I_C=10\text{mA}$, $I_{B1}=I_{B2}=1.0\text{mA}$		300	ns

CP792V-2N3906

Typical Electrical Characteristics



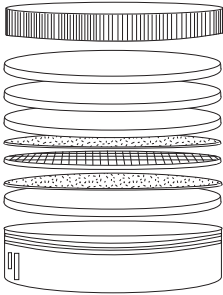
BARE DIE PACKING OPTIONS



BARE DIE IN TRAY (WAFFLE) PACK

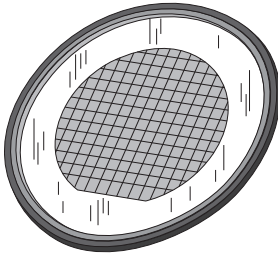
CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

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)



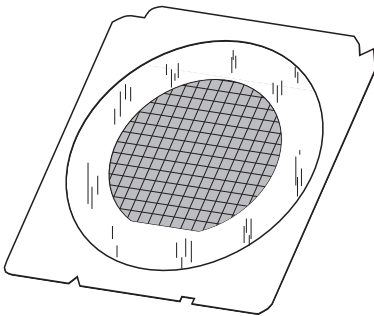
UNSAWN WAFER

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)



SAWN WAFER ON METAL FRAME

WS: Full wafer, sawn and mounted on metal frame,
100% tested with reject die inked.
(example: CP211-PART NUMBER-WS)

R0 (7-December 2015)

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

CONTACT US

Corporate Headquarters & Customer Support Team

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Main Fax: (631) 435-1824
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www.centalsemi.com

Worldwide Field Representatives:
www.centalsemi.com/wwreps

Worldwide Distributors:
www.centalsemi.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.centalsemi.com/terms

Product End of Life Notification

PDN ID:	PDN00999
Notification Date:	8/03/15
Last Buy Date:	Varies
Last Shipment Date	Varies

Summary: The purpose of this End of Life Notification is to identify the bare die devices that Central previously discontinued without notification. This list excludes standard packaged and custom devices. The discontinuance of these devices predates Central's current EOL notification process. The notification process now utilized by Central is industry standard and all future product discontinuation notifications will be issued accordingly. We apologize for any inconvenience caused.

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various 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 Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

Central Part Number	Replacement
CPC01-SIC10-1200-CT	CPC02-SIC10-1200-CT
CPD05-CMR1-06M-WN	CPD69-CMR1-06M-WN
CPD05-1N3614-CT	CPD69-1N3614-WN
CPD05-1N3614-WN	CPD69-1N3614-WN
CPD05-1N4004-CT	CPD69-1N4007-CT
CPD05-1N4004-WN	CPD69-1N4004-WN
CPD05-1N4006-WN	CPD69-1N4007-WN
CPD35-CMP SH-3-WN	CPD48V-CMP SH-3-WN
CPD41-CMPD4150-WS	CPD93V-CMPD4150-WS
CPD41-1N3600-WN	CPD93V-1N3600-WN
CPD41-1N4148-CT	N/A
CPD41-1N4150-CT	CPD93V-1N4150-CT
CPD41-1N4150-WN	CPD93V-1N4150-WN
CPD42-CMR1-02-WN	CPD69-CMR1-02M-WN
CPD42-CMR1-06-WN	CPD69-CMR1-06M-WN
CPD42-CMR1-10-WN	CPD69-1N4007-WN
CPD48-CMP SH-3-CT	CPD48V-CMP SH-3-CT
CPD48-CMP SH-3-WN	CPD48V-CMP SH-3-WN
CPD63-1N4148-CT	CPD83V-1N4148-CT
CPD63-1N4148-CTAN	CPD83V-1N4148-CTAN
CPD63-1N4148-WN	CPD83V-1N4148-WN
CPD63-1N4148-WS	CPD83V-1N4148-WS
CPD63-1N4448-WN	CPD83V-1N4448-WN
CPD63-1N4454-CT	CPD83V-1N4454-CT
CPD63-1N914-CT	CPD83V-1N914-CT
CPD63-1N914-WN	CPD83V-1N914-WN
CPD63-1N914-WR	CPD83V-1N914-WR
CPD63-1N914A-WN	CPD83V-1N914A-WN
CPD64-CLL459A-CT	CPD66X-CLL459A-CT
CPD64-CMPD3003-CT	CPD66X-CMPD3003-CT
CPD64-CMPD3003-WN	CPD66X-CMPD3003-WN
CPD64-1N3595-CT	CPD66X-1N3595-CT
CPD64-1N3595-WN	CPD66X-1N3595-WN
CPD64-1N3595-WR	CPD66X-1N3595-WR
CPD64-1N485B-CT	CPD66X-1N485B-CT

*** CONTINUED ***

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.

Product End of Life Notification

PDN ID:	PDN00999
Notification Date:	8/03/15
Last Buy Date:	Varies
Last Shipment Date	Varies

*** CONTINUED FROM PRIOR PAGE ***

Central Part Number	Replacement
CPD73-CMFBR-6F-WN	N/A
CPD77-1N5820-WN	CPD77X-1N5820-WN
CPD81-CZSH5-40-CT	CPD81X-CZSH5-40-CT
CPD86X-CZSH5-40-CT	CPD81X-CZSH5-40-CT
CPD92-CMPD6263-CT	CPD102X-CMPD6263-CT
CPD92-CMUD6263E-CT	CPD102X-6263E-CT
CPD92X-CMPD6263-WR	CPD102X-CMPD6263-WR
CPD96V-CMLSH05-4-CT	CPD94X-CMLSH05-4-CT
CPD99-MBR1645-CT	N/A
CPZ18-CMOZ3L9-CT	CPZ28X-CMOZ3L9-CT
CPZ18-CMPZ4626-CT	CPZ28X-1N4626-CT
CPZ18-CMPZ4626-WN	CPZ28X-CMPZ4626-WN
CPZ18-CMPZ5231B-CT	CPZ28X-CMPZ5231B-CT
CPZ18-CMPZ5232B-CT	CPZ28X-1N5232B-CT
CPZ18-1N4622-CT	CPZ28X-1N4622-CT
CPZ18-1N4626-WN	CPZ28X-CMPZ4626-WN
CPZ18-1N5231B-CT	CPZ28X-CMPZ5231B-CT
CPZ18-1N5232B-CT	CPZ28X-1N5232B-CT
CPZ18-1N5232B-CTAN	CPZ28X-1N5232B-CT
CPZ18-1N5524B-CT	CPZ28X-1N5524B-CT
CPZ18-1N751A-CT	CPZ28X-1N751A-CT
CPZ18-1N752A-CT	N/A
CPZ19-BZX84C39-CT	N/A
CPZ19-BZX84C8V2-WN	N/A
CPZ19-CMPZ5236B-CT	CPZ28X-CMPZ5236B-CT
CPZ19-CMPZ5241B-WN	N/A
CPZ19-CMPZ5244B-CT	CPZ28-CMPZ5244B-CT
CPZ19-CMPZ5246B-WN	N/A
CPZ19-CMPZ5254B-WN	CPZ28X-CMPZ5254B-WN
CPZ19-CMPZ5258B-CT	N/A
CPZ19-CMPZ5258B-WN	N/A
CPZ19-1N4753A-WN	CPZ25-1N4753A-WN
CPZ19-1N5236B-CT200	CPZ28X-5236B-CT200
CPZ19-1N5244B-CT	CPZ28X-1N5244B-CT
CPZ19-1N5258B-WN	N/A
CPZ19-1N6001B-CT	CPZ28-1N6001B-CT
CPZ19-1N6001B-WN	CPZ28-1N6001B-WN
CPZ28-BZX84C39-WR	CPZ28X-BZX84C39-WR
CP108-CRSH2-4-CT	N/A
CP108-CRSH2-5-CT	N/A
CP108-1N5819-CT	N/A
CP117-TIP112-CT	CP230-TIP122-CT
CP117-TIP121-CT	CP230-TIP122-CT
CP117-2N6045-CT	CP127-2N6045-CT
CP117-2N6300-CT	CP127-2N6300-CT

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Product End of Life Notification

PDN ID:	PDN00999
Notification Date:	8/03/15
Last Buy Date:	Varies
Last Shipment Date	Varies

*** CONTINUED FROM PRIOR PAGE ***

Central Part Number	Replacement
CP117-2N6301-CT	CP127-2N6301-CT
CP117-2N6301-WS	CP127-2N6301-WS
CP142-2N4240-CT	CP212-2N4240-CT
CP160-MPSA42-CT	CP310-MPSA42-CT
CP169-2N5179-WN	N/A
CP177-TIP50-WN	N/A
CP183-2N5320-CT	CP325V-2N5320-CT
CP188-BCW72-CT	N/A
CP188-BC237B-CT	N/A
CP188-CMPT5089-CT	CP388X-2N5089-CT
CP188-CMPT5089-WN	N/A
CP188-2N2484-CT	CP388X-2N2484-CT
CP188-2N2484-WN	CP388X-2N2484-WN
CP188-2N2920-CTJ	N/A
CP188-2N5088-CTO	CP388X-2N5088-CT
CP188V-BCX70K-WR	CP388X-BCX70K-WR
CP188V-2N5088-CT	CP388X-2N5088-CT
CP191-2N2219A-CT	N/A
CP191-2N2222A-CT	CP191V-2N2222A-CT
CP191-2N2222A-WN	CP191V-2N2222A-WN
CP191-2N2222A-WR	CP191V-2N2222A-WR
CP191-2N2222A-WS	CP191V-2N2222A-WR
CP192V-CMPT3904-CT	CP392V-CMPT3904-CT
CP195-2N3501-CT	CP318V-2N3501-CT
CP195-2N3501-WN	CP318V-2N3501-WN
CP195-2N5682-CT	CP318V-2N5682-CT
CP195-2N5682-WN	CP318V-2N5682-WN
CP207-2N2369A-CT	CP396V-2N2369A-CT
CP207-2N2369A-WN	CP396V-2N2369A-WN
CP237-2N3725-CT	CP337V-2N3725-WN
CP301-2N3439-CT	CP310-2N3439-CT
CP303V-CMPT8099-CT	CP303X-CMPT8099-CT
CP303V-CMPT8099-WN	CP303X-CMPT8099-WN
CP305-MJE182-CT	CP325V-MJE182-CT
CP314-MPS650-CT	CP314V-MPS650-CT
CP316-2N5551-CT	CP336V-2N5551-CT
CP316V-2N5551-CT	CP336V-2N5551-CT
CP316V-2N5551-CTAN	CP336V-2N5551-CTAN
CP316V-2N5551-WN	CP336V-2N5551-WN
CP317-2N2857-CT	N/A
CP317-2N918-CT	N/A
CP319-CZTA44HC-CT	CP212-CZTA44HC-CT
CP319-TIP47-CT	CP212-TIP47-CT
CP319-TIP50-CT	CP212-TIP50-CT
CP324-2N7002-CM	N/A

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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.

Product End of Life Notification

PDN ID:	PDN00999
Notification Date:	8/03/15
Last Buy Date:	Varies
Last Shipment Date	Varies

*** CONTINUED FROM PRIOR PAGE ***

Central Part Number	Replacement
CP324-2N7002-CT	N/A
CP324-2N7002-WN	N/A
CP336V-2N5551-CTAN	CP336V-2N5551-CT
CP353-2N3506-CT	CP353V-2N3506-CT
CP512-2N4033-CT	CP705V-CZT4033-CT
CP512-2N4033-WN	CP705V-CZT4033-WN
CP517-BDX54C-WS	CP527-BDX54C-WR
CP517-TIP126-CT	CP630-TIP127-CT
CP517-2N6042-CT	CP527-2N6042-CT
CP517-2N6053-CM	CP527-2N6053-CM
CP517-2N6053-CT	CP527-2N6053-CT
CP517-2N6296-CT	CP527-2N6296-CT
CP517-2N6299-CT	CP527-2N6299-CT
CP517-2N6299-WS	CP527-2N6299-WR
CP517-2N6668-CT	CP527-2N6668-CT
CP529-CMPT2907A-WN	N/A
CP548-2N5116-WN	N/A
CP555-2N4209-WN	N/A
CP559-2N2907A-WN	N/A
CP560-MPSA92-CT	CP710V-MPSA92-CT
CP560-MPSA92-WN	CP710V-MPSA92-WN
CP560-2N6520-WN	CP710V-2N6520-WN
CP584-2N5401-CTAN	CP716V-2N5401-CTAN
CP584-2N5401-WN	CP716V-2N5401-WN
CP587-2N3964-WN	N/A
CP588-BCW70-CT	CP788X-BCW70-CT
CP588-2N3799-WN	CP788X-2N3799-CT
CP588-2N5087-CT	CP588V-2N5087-CT
CP588V-BC556B-WR	N/A
CP588V-2N2605-CT	CP788X-2N2605-CT
CP588V-2N3799-WN	N/A
CP588V-2N5087-CT	CP788X-2N5087-CT
CP591-2N2907A-CT	CP591X-2N2907A-CT
CP591V-2N2907A-CT	CP591X-2N2907A-CT
CP592-CMPT3906-CT	CP792V-CMPT3906-CT
CP592-2N3251-CT	N/A
CP592-2N3906-WN	CP792V-2N3906-WN
CP701-2N5416-CT	CP710V-2N5416-CT
CP705-BC327-25-CT	N/A
CP705-BC327-40-CT	N/A
CP705-BC807-40-CT	N/A
CP705-BD140-CT	N/A
CP705-CZT4033-CT	CP705V-CZT4033-CT
CP705-D41D11-CT	CP705V-D41D11-CT
CP705-D41D11-CT200	CP705V-D41D11-CT200

*** CONTINUED ***

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<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN00999
Notification Date:	8/03/15
Last Buy Date:	Varies
Last Shipment Date	Varies

*** CONTINUED FROM PRIOR PAGE ***

Central Part Number	Replacement
CP705-2N4356-CT	N/A
CP705-2N4356-WN	N/A
CP707-MPSA64-WN	CP727V-MPSA64-WN
CP707-MPSU95-CT	CP727V-MPSU95-CT
CP710-CMPTA94-CT	CP710V-CMPTA94-CT
CP710-MJE350-CT	N/A
CP710-MPSA92-CT	CP710V-MPSA92-CT
CP714-MPS750-CT	CP714V-MPS750-CT
CP714-MPS751-CT	N/A
CP714-MPS751-WN	N/A
CP716-CMPT5401-CM	N/A
CP716-CMPT5401-CT	N/A
CP716-2N5401-CTAN	CP716V-2N5401-CTAN
CP716V-CMPT5401-CM	N/A
CP716V-2N3635-CM	CP736V-2N3635-CM
CP716V-2N3635-CT	CP736V-2N3635-CT
CP716V-2N3637-CT	CP736V-2N3637-CT
CP716V-2N5401-CT	CP736V-2N5401-CT
CP716V-2N5401-CTAN	CP736V-2N5401-CTAN
CP716V-2N5401-WN	CP736V-2N5401-WN
CP792V-2N3906-CT	CP792V-CMPT3906-CT

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@centrasemi.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.