NPN POWER DARLINGTON TRANSISTOR 2.0 AMP, 100 VOLT





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR TIP112 is a 100 volt NPN power darlington transistor designed for high gain applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	100	V
Collector-Emitter Voltage	VCEO	100	V
Emitter-Base Voltage	V _{EBO}	5.0	V
Continuous Collector Current	Ι _C	2.0	А
Peak Collector Current	ICM	4.0	А
Continuous Base Current	۱ _B	50	mA
Power Dissipation	PD	50	W
Thermal Resistance	Θ^{JC}	2.5	°C/W
Operating and Storage Junction Temperature	т _Ј , Т _{stg}	-65 to +150	°C

ELECTRICA	L CHARACTERISTICS: (T _C =25°C unl	ess otherwise ne	oted)	
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	V _{CB} =100V		1.0	mA
ICEO	V _{CE} =50V		2.0	mA
I _{EBO}	V _{EB} =5.0V		2.0	mA
BVCEO	I _C =30mA	100		V
V _{CE(SAT)}	I _C =2.0A, I _B =8.0mA		2.5	V
V _{BE(ON)}	V _{CE} =4.0V, I _C =2.0A		2.8	V
hFE	V _{CE} =4.0V, I _C =1.0A	1000		
hFE	V _{CE} =4.0V, I _C =2.0A	500		
Cob	V _{CB} =10V, I _E =0, f=0.1MHz		100	pF
fT	V _{CE} =10V, I _C =750mA, f=1.0MHz	25		MHz





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TO-220 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
А	0.170	0.190	4.31	4.82
В	0.045	0.055	1.15	1.39
С	0.013	0.026	0.33	0.65
D	0.083	0.107	2.10	2.72
E	0.394	0.417	10.01	10.60
F (DIA)	0.140	0.157	3.55	4.00
G	0.100	0.118	2.54	3.00
Н	0.230	0.270	5.85	6.85
	0.560	0.625	14.23	15.87
J	-	0.250	-	6.35
К	0.025	0.038	0.64	0.96
L	0.500	0.579	12.70	14.70
М	0.090	0.110	2.29	2.79
TO-220 (REV: R2)				

LEAD CODE:

1) Base

R2

2) Collector

3) Emitter

MARKING: FULL PART NUMBER



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SOA CHARACTERISTICS

Active-Region Safe Operating Area

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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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:	PDN01248
Notification Date:	11/28/22
Last Buy Date:	Stock Only
Last Shipment Date	Stock Only

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. Orders can only be accepted for products with available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

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:PDN01248Notification Date:11/28/22Last Buy Date:Stock OnlyLast Shipment DateStock Only

Summary: The TIP112 and TIP112M power transistors are discontinued and now classified as End 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
TIP112	N/A
TIP112 SL	N/A
TIP112M SL	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.

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