Data Sheet



Manufacturers of World Class Discrete Semiconductors

TIP100 TIP101 TIP102 NPN TIP105 TIP106 TIP107 PNP

SILICON POWER DARLINGTON COMPLEMENTARY TRANSISTORS

JEDEC TO-220AB CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR TIP100, TIP105 Series are Complementary Silicon Power Darlington Transistors designed for low speed switching and power amplifier applications

MAXIMUM RATINGS (T_C=25°C)

	SYMBOL	TIP100 TIP105	TIP101 TIP106	TIP102 TIP107	UNIT
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Current (Peak) Base Current Power Dissipation Operating and Storage	VCBO VCEO VEBO IC ICM IB PD	60 60 5.0 8.0 15 1.0 80	80 80 5.0 8.0 15 1.0 80	100 100 5.0 8.0 15 1.0 80	V V A A W
Junction Temperature	T _J , T _{stg})	-65 TO +1	50	°c
Thermal Resistance	θJC	1.56	1.56	1.56	°c/w
ELECTRICAL CHARACTERISTICS (T _C =25 ^O C) SYMBOL <u>TEST CONDITIONS</u>	TIP10 TIP10 MIN M			IP102 IP107 N MAX	UNIT
	60	50 50 8.0 2.0 2.5 2.8 ,000 1,00 20 4.	2.0 2.5 2.8 0 20,000 1, 0	50 50 2.0 2.5 2.8 ,000 20,000 200 4.0	μΑ μΑ mA V V V V V
		MI	<u>N</u>	MAX	
TIP102 ONLY)), TIP101,			200	pF
C _{Ob} V _{CB} =10V, I _E =0, f=0.1MHz (TIP105 TIP107 ONLY)	5, TIP106,			300	pF

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 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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- Application and design sample kits

· Custom bar coding for shipments

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

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Product End of Life Notification

PDN ID:	PDN01041
Notification Date:	8/11/16
Last Buy Date:	2/11/17
Last Shipment Date	8/11/17

Summary: The TIP100 series of NPN and PNP Darlington power transistors, with the exception of TIP102 and TIP107, 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 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
TIP100	TIP102
TIP101	TIP102
TIP105	TIP107
TIP106	TIP107

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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 2N6350
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 SMMBTA14LT1G
 SBSP52T1G
 NJVMJD117T4G
 Jantx2N6058
 2N6353
 LB1205-L-E
 500-00005
 2N6053
 NJVMJD112G
 Jan2N6350

 Jantx2N6352
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 2SB852KT146B
 TIP112TU
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 MMBTA14-TP
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 NTE2350
 NTE245
 NTE245
 NTE246
 MTE246
 MTE246
 MTE246