CXTA27

SURFACE MOUNT NPN SILICON DARLINGTON TRANSISTOR



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CXTA27 type is a NPN Silicon Darlington Transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for applications requiring extremely high gain.

MARKING: FULL PART NUMBER



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Emitter Voltage	V _{CES}	60	V
Emitter-Base Voltage	V_{EBO}	10	V
Continuous Collector Current	l _C	500	mA
Power Dissipation	P_{D}	1.2	W
Operating and Storage Junction Temperature	T _{J,} T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	104	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

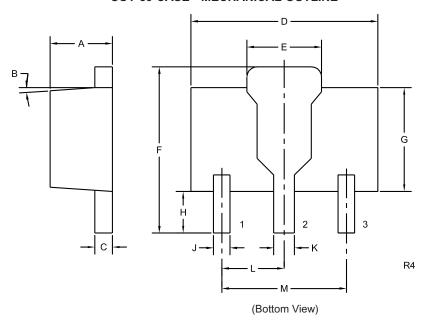
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =50V		100	nA
ICES	V _{CE} =50V		500	nA
I _{EBO}	V _{EB} =10V		100	nA
BV _{CBO}	I _C =100μA	60		V
BV _{CES}	I _C =100μA	60		V
V _{CE(SAT)}	I _C =100mA, I _B =0.1mA		1.5	V
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =100mA		2.0	V
h _{FE}	V_{CE} =5.0V, I_{C} =10mA	10,000		
h _{FE}	V_{CE} =5.0V, I_{C} =100mA	10,000		
fT	V_{CE} =50V, I_{C} =10mA, f=100MHz	125		MHz

CXTA27

SURFACE MOUNT NPN SILICON DARLINGTON TRANSISTOR



SOT-89 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Emitter 2) Collector
- 3) Base

MARKING:

FULL PART NUMBER

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
Α	0.055	0.067	1.40	1.70
В	4	0	4	0
С	0.014	0.018	0.35	0.46
D	0.173	0.185	4.40	4.70
E	0.064	0.074	1.62	1.87
F	0.146	0.177	3.70	4.50
G	0.090	0.106	2.29	2.70
Н	0.028	0.051	0.70	1.30
J	0.014	0.019	0.36	0.48
K	0.017	0.023	0.44	0.58
Ĺ	0.0)59	1.	50
М	0.1	18	3.	00

SOT-89 (REV: R4)

R4 (23-February 2010)

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

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

www.centralsemi.com (001)



Product End of Life Notification

PDN ID:	PDN01274
Notification Date:	2/19/25
Last Buy Date:	8/19/25
Last Shipment Date	2/19/26

https://www.centralsemi.com

Summary: All devices manufactured in the SOT-89 package are discontinued and now classified as End of Life (EOL). Available options are:

- 1. Orders will be accepted for products with available inventory.
- 2. Last Time Buy (LTB) may be available for certain items.
- 3. A replacement product not available at the time of this notice, may be under development.

Please contact your Central Semiconductor Customer Service Representative at 001.631.435.1110

Although Central Semiconductor 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
BCX51 BK	N/A
BCX51 TR	N/A
BCX51-10 BK	N/A
BCX51-10 TR	N/A
BCX51-16 BK	N/A
BCX51-16 TR	N/A
BCX52 TR	N/A
BCX52-10 TR	N/A
BCX52-16 BK	N/A
BCX52-16 TR	N/A
BCX53 BK	N/A
BCX53 TR	N/A
BCX53-10 TR	N/A
BCX53-16 BK	N/A
BCX53-16 TR	N/A
BCX54 TR	N/A
BCX54-10 TR	N/A
BCX54-16 BK	N/A
BCX54-16 TR	N/A
BCX55 TR	N/A
BCX55-10 TR	N/A
BCX55-16 BK	N/A
BCX55-16 TR	N/A
BCX56-16 BK	N/A
BCX56-16 TR	N/A
CBCX68 BK	N/A
CBCX68 TR	N/A
CBCX68-16 BK	N/A
CBCX68-16 TR	N/A
CBCX68-25 BK	N/A
CBCX69 BK	N/A
*** CONTINUED ***	

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor 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.

CCC785 REV 003



https://www.centralsemi.com

Product End of Life Notification

22112	
PDN ID:	PDN01274
Notification Date:	2/19/25
Last Buy Date:	
Last Shipment Date	2/19/26

*** CONTINUED FROM PRIOR PAGE ***

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement	
CBCX69 TR	N/A	
CBCX69-16 BK	N/A	
CBCX69-16 TR	N/A	
CBCX69-25 BK	N/A	
CBCX69-25 TR	N/A	
CS89M BK	N/A	
CS89M TR	N/A	
CS89N BK	N/A	
CS89N TR	N/A	
CXDM1002N BK	N/A	
CXDM1002N TR	N/A	
CXDM4060N BK	N/A	
CXDM4060N TR	N/A	
CXDM4060P BK	N/A	
CXDM4060P TR	N/A	
CXDM6053N BK	N/A	
CXDM6053N TR	N/A	
CXR1-04 BK	N/A	
CXR1-04 TR	N/A	
CXSH-4 BK	N/A	
CXSH-4 TR	N/A	
CXTA14 BK	N/A	
CXTA14 TR	N/A	
CXTA27 BK	N/A	
CXTA27 TR	N/A	
CXTA42 BK	N/A	
CXTA42 TR	N/A	
CXTA44 BK	N/A	
CXTA44 TR	N/A	
CXTA62 BK	N/A	
CXTA62 TR	N/A	
CXTA64 BK	N/A	
CXTA64 TR	N/A	
CXTA94 TK CXTA92 BK	N/A	
CXTA92 DR CXTA92 TR	N/A	
CXTA92 TK CXT2222A BK	N/A	
CXT2222A BK CXT2222A TR	N/A N/A	
CXT2907A BK	N/A N/A	
CXT2907A TR	N/A N/A	
CXT290/A TR CXT3019 BK	N/A N/A	
CXT3019 TR	N/A	
CXT3090L BK	N/A	
CXT3090L TR ** CONTINUED ***	N/A	

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor 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.

CCC785 REV 003



Product End of Life Notification

22112	
PDN ID:	PDN01274
Notification Date:	2/19/25
Last Buy Date:	
Last Shipment Date	2/19/26

https://www.centralsemi.com

*** CONTINUED FROM PRIOR PAGE ***

^{*} All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
CXT3150 BK	N/A
CXT3150 BR	N/A
CXT3410 BK	N/A
CXT3410 BR CXT3410 TR	N/A
CXT3410 TR CXT3820 TR	N/A
CXT3904 BK	N/A
CXT3904 BR CXT3904 TR	N/A
CXT3904 TR CXT3904 TR13	N/A N/A
CXT3906 BK	N/A
CXT3906 TR	N/A
CXT4033 BK	N/A
CXT4033 TR	N/A
CXT491E BK	N/A
CXT491E TR	N/A
CXT5401 BK	N/A
CXT5401 TR	N/A
CXT5551 BK	N/A
CXT5551 TR	N/A
CXT5551HC BK	N/A
CXT5551HC TR	N/A
CXT591E BK	N/A
CXT591E TR	N/A
CXT7090L BK	N/A
CXT7090L TR	N/A
CXT7410 BK	N/A
CXT7410 TR	N/A
CXT7820 TR	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 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.

CCC785 REV 003

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Central Semiconductor:

CXTA27 TR PBFREE