

SURFACE MOUNT COMPLEMENTARY SILICON DARLINGTON TRANSISTORS



Central Semiconductor Corp.

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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CXTA14, CXTA64 types are complementary silicon Darlington transistors 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-Base Voltage	V _{CBO}	30	V
Collector-Emitter Voltage	V _{CEO}	30	V
Emitter-Base Voltage	V _{EBO}	10	V
Continuous Collector Current	IC	500	mA
Power Dissipation	PD	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
ICBO	V _{CB} =30V		100	nA
IEBO	V _{EB} =10V		100	nA
BVCES	Ι _C =100μΑ	30		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		
hFE	V _{CE} =5.0V, I _C =100mA	20,000		
fT	V _{CE} =5.0V, I _C =10mA, f=100MHz	125		MHz

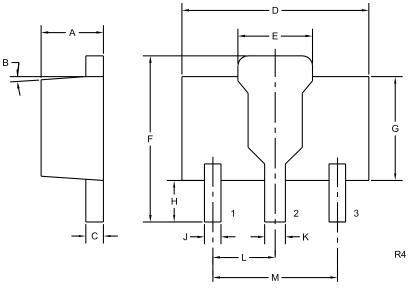
R6 (23-February 2010)





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SOT-89 CASE - MECHANICAL OUTLINE



(Bottom View)

	CODE:
LEAD	CODE.

- 1) Emitter 2) Collector
- 3) Base

MARKING: FULL PART NUMBER

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
А	0.055	0.067	1.40	1.70		
В	4°		4°			
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		
L	0.059		1.50			
М	0.118		3.00			

SOT-89 (REV: R4)

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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).
- If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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