CXTA27

SURFACE MOUNT NPN SILICON DARLINGTON TRANSISTOR



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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)

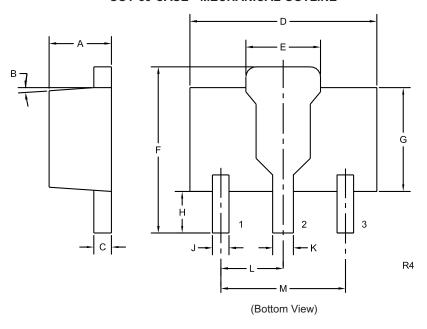
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =50V		100	nA
ICES	V _{CE} =50V		500	nA
I _{EBO}	V _{EB} =10V		100	nA
BV _{CBO}	I _C =100μA	60		V
BV _{CES}	I _C =100μA	60		V
V _{CE(SAT)}	I _C =100mA, I _B =0.1mA		1.5	V
V _{BE(ON)}	V_{CE} =5.0V, I_{C} =100mA		2.0	V
h _{FE}	V_{CE} =5.0V, I_{C} =10mA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

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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			
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)

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 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

- 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

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