

AC127
GERMANIUM
NPN TRANSISTOR



TO-1 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR AC127 is a germanium NPN transistor designed for small signal general purpose applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Collector-Base Voltage
Collector-Emitter Voltage, $R_{BE}<70\Omega$
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Continuous Base Current
Power Dissipation
Operating Junction Temperature
Thermal Resistance

SYMBOL

V_{CBO}	32
V_{CER}	32
V_{CEO}	12
V_{EBO}	10
I_C	500
I_B	25
P_D	340
T_J	-65 to +100
Θ_{JA}	160

UNITS

V
V
V
V
mA
mA
mW
$^\circ\text{C}$
$^\circ\text{C/W}$

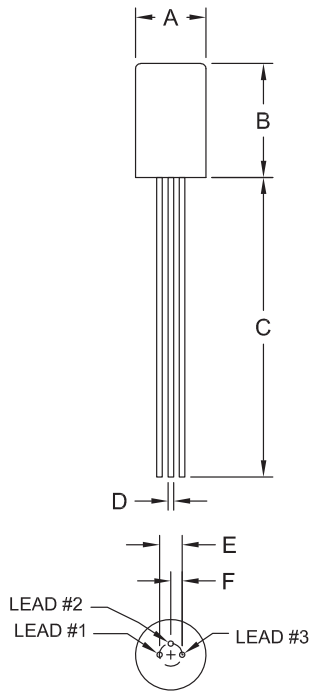
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{CBO}	$V_{CB}=0.5\text{V}$			10	μA
I_{CBO}	$V_{CB}=32\text{V}$, $T_J=75^\circ\text{C}$			1.1	mA
I_{EBO}	$V_{EB}=5.0\text{V}$, $T_J=75^\circ\text{C}$			10	μA
$V_{BE(ON)}$	$V_{CE}=1.0\text{V}$, $I_C=500\text{mA}$			1.2	V
h_{FE}	$V_{CE}=1.0\text{V}$, $I_C=20\text{mA}$	50			
h_{FE}	$V_{CE}=1.0\text{V}$, $I_C=50\text{mA}$	50			
h_{FE}	$V_{CE}=1.0\text{V}$, $I_C=200\text{mA}$	45			
h_{FE}	$V_{CE}=1.0\text{V}$, $I_C=500\text{mA}$	20			
C_{cb}	$V_{CB}=5.0\text{V}$, $I_E=0$		70		pF

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TO-1 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.216	0.240	5.50	6.10
B	0.354	0.410	9.00	10.41
C	0.787	-	20.0	-
D	0.018	0.021	0.45	0.53
E	0.061	0.081	1.55	2.06
F	0.035		0.90	

TO-1 (REV: R0)

LEAD CODE:

- 1) Emitter
- 2) Base
- 3) Collector

MARKING: FULL PART NUMBER

R0

R0 (12-October 2020)

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

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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.centrasemi.com/terms

Product End of Life Notification

PDN ID:	PDN01014
Notification Date:	12/14/15
Last Buy Date:	6/14/16
Last Shipment Date	12/14/16

Summary: All devices manufactured in the TO-1 package are 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
AC127	N/A
AC128	N/A
AC187K	N/A
AC188K	N/A
ASY48	N/A
CEN612	N/A
2N215	N/A
2N217	N/A
2N2430	N/A
2N2706	N/A
2N274	N/A
2N499	N/A
2SA221	N/A
2SB175	N/A
2SB187	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. 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.