

BAV45
SILICON
PICOAMPERE DIODE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR BAV45 is a silicon picoampere diode, mounted in a hermetically sealed metal case, designed for extremely low leakage applications.



TO-18 (2-LEAD) CASE

MARKING: FULL PART NUMBER

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

Peak Repetitive Reverse Voltage
 Continuous Reverse Voltage
 Continuous Forward Current
 Peak Repetitive Forward Current
 Operating and Storage Junction Temperature
 Thermal Resistance

SYMBOL

V_{RRM} 35
 V_R 20
 I_F 50
 I_{FRM} 100
 T_J, T_{stg} -65 to +125
 Θ_{JA} 500

UNITS

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

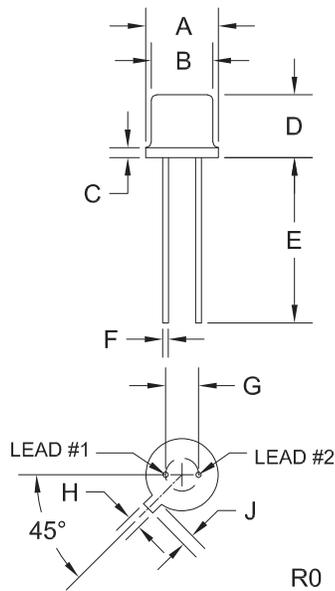
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=5.0\text{V}$		5.0	pA
I_R	$V_R=5.0\text{V}, T_A=80^\circ\text{C}$		250	pA
I_R	$V_R=20\text{V}$		10	pA
V_F	$I_F=10\text{mA}$		1.0	V
C_J	$V_R=0, f=1.0\text{MHz}$		1.3	pF
t_{rr}	$I_F=I_R=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$		600	ns

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TO-18 (2-LEAD) CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A (DIA)	0.209	0.230	5.31	5.84
B (DIA)	0.178	0.195	4.52	4.95
C	-	0.030	-	0.76
D	0.170	0.210	4.32	5.33
E	0.500	-	12.70	-
F (DIA)	0.016	0.019	0.41	0.48
G (DIA)	0.100		2.54	
H	0.036	0.046	0.91	1.17
J	0.028	0.048	0.71	1.22

TO-18 (2 LEAD) (REV: R0)

LEAD CODE:

- 1) Anode
- 2) Cathode

MARKING: FULL PART NUMBER

R0

R1 (1-May 2013)

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

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.centalsemi.com/terms



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01029
Notification Date:	6/30/16
Last Buy Date:	12/30/16
Last Shipment Date	6/30/17

Summary: The BAV45 silicon picoampere diode is discontinued and now classified as End of Life (EOL). This device type will now only be offered for sale in bare die form.

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.

<u>Central Part Number</u>	<u>Replacement</u>
BAV45	CPD65-BAV45-CT

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@centrasemi.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.