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sales@integrated-circuit.com

BAV45

**SILICON
PICOAMPERE DIODE**



TO-18 (2-LEAD) CASE



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.

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

UNITS

V

V_R

20

V

I_F

50

mA

I_{FRM}

100

mA

T_J, T_{stg}

-65 to +125

$^{\circ}\text{C}$

θ_{JA}

500

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

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}

$I_F=I_R=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$

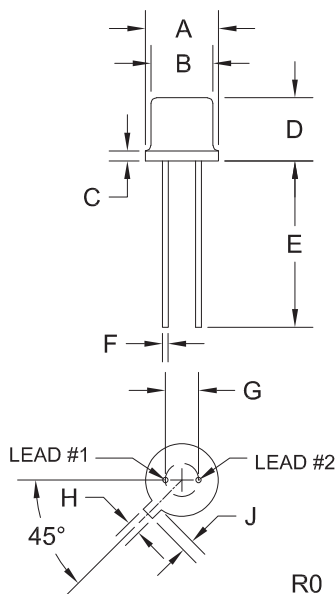
600

ns

BAV45
SILICON
PICOAMPERE DIODE



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



SYMBOL	DIMENSIONS			
	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

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

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