

Excellent Integrated System Limited

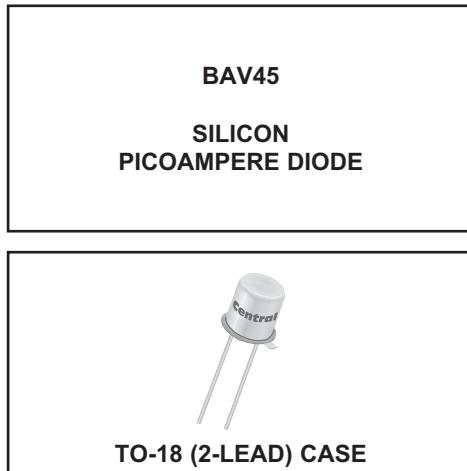
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[Central Semiconductor Corp](#)
[BAV45](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



www.centralsemi.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°C)

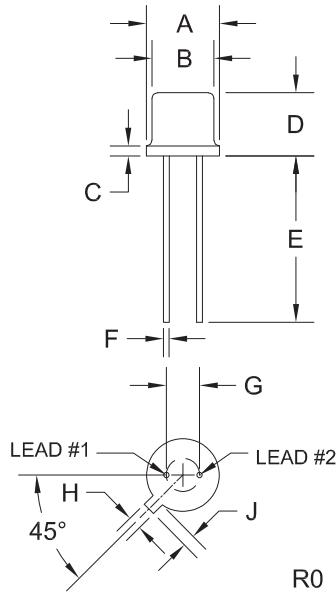
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	35	V
Continuous Reverse Voltage	V _R	20	V
Continuous Forward Current	I _F	50	mA
Peak Repetitive Forward Current	I _{FRM}	100	mA
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +125	°C
Thermal Resistance	θ _{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =5.0V		5.0	pA
I _R	V _R =5.0V, T _A =80°C		250	pA
I _R	V _R =20V		10	pA
V _F	I _F =10mA		1.0	V
C _J	V _R =0, f=1.0MHz		1.3	pF
t _{rr}	I _F =I _R =10mA, I _{rr} =1.0mA, R _L =100Ω		600	ns



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



SYMBOL	DIMENSIONS		INCHES		MILLIMETERS	
	MIN	MAX	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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