LINEAR SYSTEMS

JPAD50
LOW LEAKAGE
PICO-AMP DIODE

micross

Linear Systems replaces discontinued Siliconix JPAD50

The JPAD50 is a low leakage Pico-Amp Diode packaged in TO-92

The JPAD50 extremely low-leakage diode provides a superior alternative to conventional diode technology when reverse current (leakage) must be minimized. The JPAD50 features a leakage current of -50 pA and is well suited for use in applications such as input protection for operational amplifiers.

JPAD50 Benefits:

- Negligible Circuit Leakage Contribution
- Circuit "Transparent" Except to Shunt High-Frequency Spikes
- Simplicity of Operation

JPAD50 Applications:

- Op Amp Input Protection
- Multiplexer Overvoltage Protection

FEATURES	
DIRECT REPLACEMENT FOR SILICONIX JPAD50	
REVERSE BREAKDOWN VOLTAGE	$BV_R \geq -35V$
ULTRALOW LEAKAGE	≤ 50 pA
REVERSE CAPACITANCE	$C_{rss} \leq 2.0pF$
ABSOLUTE MAXIMUM RATINGS @ 25°C (unless otherwise noted)	
Maximum Temperatures	
Storage Temperature	-65°C to +150°C
Operating Junction Temperature	-55°C to +135°C
Maximum Power Dissipation	
Continuous Power Dissipation	350mW
MAXIMUM CURRENT	
Forward Current (Note 1)	10mA

JPAD50 ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise noted)

SYMBOL	CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	CONDITIONS
BV_R	Reverse Breakdown Voltage	-35	--	--	V	$I_R = -1\mu A$
V_F	Forward Voltage	--	0.8	1.5	V	$I_F = 5mA$
C_{rss}	Total Reverse Capacitance	--	1.5	2	pF	$V_R = -5V$, f = 1MHz
I_R	Maximum Reverse Leakage Current	--	--	-50	pA	$V_R = -20V$

Notes:

1. Absolute maximum ratings are limiting values above which JPAD50 serviceability may be impaired.

Available Packages:

JPAD50 in TO-92
JPAD50 available as bare die

Please contact Micross for full package and die dimensions

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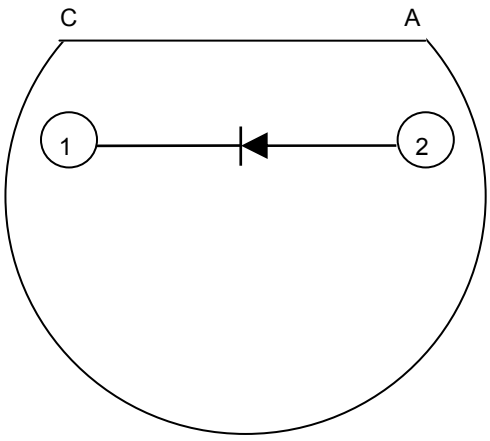
TO-92 (Bottom View)



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