

Linear Systems replaces discontinued Siliconix JPAD5

The JPAD5 is a low leakage Pico-Amp Diode packaged in TO-92

The JPAD5 extremely low-leakage diode provides a superior alternative to conventional diode technology when reverse current (leakage) must be minimized. The JPAD5 features a leakage current of -5 pA and is well suited for use in applications such as input protection for operational amplifiers.

JPAD5 Benefits:

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

JPAD5 Applications:

- Op Amp Input Protection
- Multiplexer Overvoltage Protection

FEATURES

DIRECT REPLACEMENT FOR SILICONIX JPAD5

REVERSE BREAKDOWN VOLTAGE $BV_R \geq -35V$

ULTRALOW LEAKAGE $\leq 5 \text{ pA}$

REVERSE CAPACITANCE $C_{RSS} \leq 2.0\text{pF}$

ABSOLUTE MAXIMUM RATINGS

@ 25°C (unless otherwise noted)

Maximum Temperatures

Storage Temperature -65°C to $+150^\circ\text{C}$

Operating Junction Temperature -55°C to $+135^\circ\text{C}$

Maximum Power Dissipation

Continuous Power Dissipation 350mW

MAXIMUM CURRENT

Forward Current (Note 1) 10mA

JPAD5 ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise noted)

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

Notes:

1. Absolute maximum ratings are limiting values above which JPAD5 serviceability may be impaired.

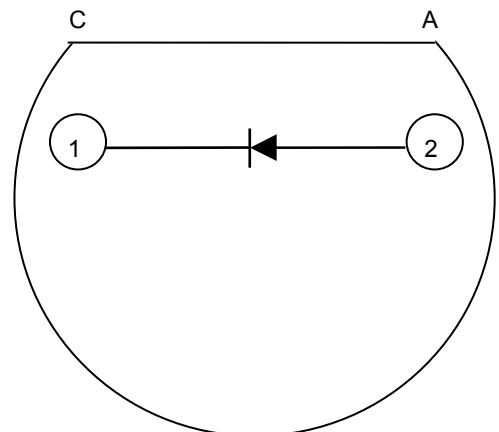
Available Packages:

JPAD5 in TO-92
JPAD5 available as bare die

Please contact Micross for full package and die dimensions



TO-92 (Bottom View)



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