

### JPAD5 LOW LEAKAGE PICO-AMP DIODE



# 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 <sub>R</sub> ≥ -35V					
ULTRALOW LEAKAGE	RALOW LEAKAGE ≤ 5 pA					
REVERSE CAPACITANCE	APACITANCE $C_{rss} \le 2.0pF$					
ABSOLUTE MAXIMUM RATINGS	×					
@ 25°C (unless otherwise noted)	<b>*</b>					
Maximum Temperatures						
Storage Temperature -65°C to +150°C						
perating Junction Temperature -55°C to +135°C						
Maximum Power Dissipation	7					
Continuous Power Dissipation 350mW						
MAXIMUM CURRENT	7					
Forward Current (Note 1)	10mA					

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

SYMBOL	CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	CONDITIONS
BV <sub>R</sub>	Reverse <mark>Br</mark> eakdown Voltage	<del>-35</del> -	1		V	I <sub>R</sub> =-1μΑ
V <sub>F</sub>	Forward Voltage		0.8	1.5	V	I <sub>F</sub> = 5mA
C <sub>rSS</sub>	Total Reverse Capacitance		1.5	2	pF	$V_R = -5V$ , $f = 1MHz$
I <sub>R</sub>	Maximum Reverse Leakage Current	_	1	-5	pA	V <sub>R</sub> = - 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

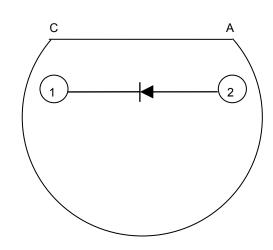


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#### TO-92 (Bottom View)



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