

Linear Systems replaces discontinued Siliconix JPAD20

The LSJPAD20 is a low leakage Pico-Amp Diode packaged in TO-92

The LSJPAD20 extremely low-leakage diode provides a superior alternative to conventional diode technology when reverse current (leakage) must be minimized. The LSJPAD20 features a leakage current of -20 pA and is well suited for use in applications such as input protection for operational amplifiers.

LSJPAD20 Benefits:

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

LSJPAD20 Applications:

- Op Amp Input Protection
- Multiplexer Overvoltage Protection

FEATURES

DIRECT REPLACEMENT FOR SILICONIX JPAD20

REVERSE BREAKDOWN VOLTAGE $BV_R \geq -35V$

ULTRALOW LEAKAGE ≤ 20 pA

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

ABSOLUTE MAXIMUM RATINGS

@ 25°C (unless otherwise noted)

Maximum Temperatures

Storage Temperature $-65^\circ C$ to $+150^\circ C$

Operating Junction Temperature $-55^\circ C$ to $+135^\circ C$

Maximum Power Dissipation

Continuous Power Dissipation 350mW

MAXIMUM CURRENT

Forward Current (Note 1) 10mA

LSJPAD20 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	--	--	-20	pA	$V_R = -20V$

Notes:

1. Absolute maximum ratings are limiting values above which LSJPAD20 serviceability may be impaired.

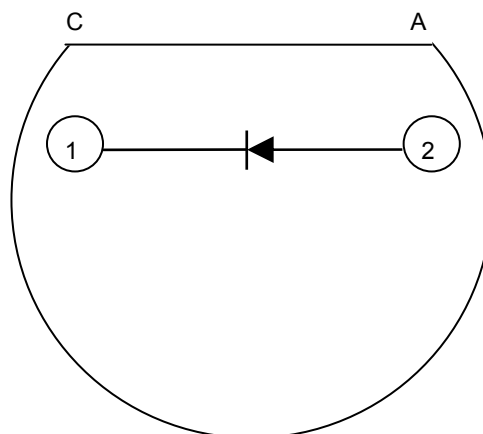
Available Packages:

LSJPAD20 in TO-92
LSJPAD20 available as bare die

Please contact Micross for full package and die dimensions



TO-92 (Bottom View)



Micross Components Europe

Tel: +44 1603 788967

Email: chipcomponents@micross.com

Web: <http://www.micross.com/distribution.com>