

Linear Systems replaces discontinued Siliconix SSTPAD20

The SSTPAD20 is a low leakage Pico-Amp Diode packaged in SOT-23

The SSTPAD20 extremely low-leakage diode provides a superior alternative to conventional diode technology when reverse current (leakage) must be minimized. The SSTPAD20 features a leakage current of -20 pA and is well suited for use in applications such as input protection for operational amplifiers.

SSTPAD20 Benefits:

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

SSTPAD20 Applications:

- Op Amp Input Protection
- Multiplexer Overvoltage Protection

FEATURES

DIRECT REPLACEMENT FOR SILICONIX SSTPAD20

REVERSE BREAKDOWN VOLTAGE $BV_R \geq -30V$

ULTRALOW LEAKAGE $\leq 20 \text{ pA}$

REVERSE CAPACITANCE $C_{rss} \leq 2\text{pF}$

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

SSTPAD20 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	--	--	-20	pA	$V_R = -20V$

Notes:

1. Absolute maximum ratings are limiting values above which SSTPAD20 serviceability may be impaired.

Available Packages:

SSTPAD20 in SOT-23
SSTPAD20 available as bare die

Please contact Micross for full package and die dimensions



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SOT-23 (Top View)

