

SSTPAD100 LOW LEAKAGE PICO-AMP DIODE



Linear Systems replaces discontinued Siliconix SSTPAD100

The SSTPAD100 is a low leakage Pico-Amp Diode packaged in SOT-23

The SSTPAD100 extremely low-leakage diode provides a superior alternative to conventional diode technology when reverse current (leakage) must be minimized. The SSTPAD100 features a leakage current of -100 pA and is well suited for use in applications such as input protection for operational amplifiers.

SSTPAD100 Benefits:

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

SSTPAD100 Applications:

- Op Amp Input Protection
- Multiplexer Overvoltage Protection

FEATURES								
DIRECT REPLACEMENT FOR SILICONIX SSTPAD100								
REVERSE BREAKDOWN VOLTAGE	BV _R ≥ -30V							
ULTRALOW LEAKAGE	≤ 100 pA							
REVERSE CAPACITANCE	C _{rss} ≤ 2pF							
ABSOLUTE MAXIMUM RATINGS								
@ 25°C (unless otherwise noted)								
Maximum Temperatures								
torage 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							

SSTPAD100 ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise noted)

SYMBOL	CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	CONDITIONS
BV _R	Reverse <mark>Br</mark> eakdown Voltage	-3 5-	1		V	I _R =-1μΑ
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		-	-100	pA	V _R = - 20V

Notes:

1. Absolute maximum ratings are limiting values above which SSTPAD100 serviceability may be impaired.

Available Packages:

SSTPAD100 in SOT-23 SSTPAD100 available as bare die

Please contact Micross for full package and die dimensions



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SOT-23 (Top View)

