

PAD1, PAD2, PAD5

Low Leakage Pico-AMP Diode

• High Impedance Protection Circuits

Absolute maximum ratings at $T_A = 25^\circ\text{C}$

Continuous Forward Gate Current	50 mA
Storage Temperature Range	- 55°C to +125°C
Lead Temperature	300°C

At 25°C free air temperature:

Electrical Characteristics

		PAD1			PAD2			Process NJ01		
		Min	Typ	Max	Min	Typ	Max	Unit	Test Conditions	
Reverse Current	I_R			- 1			- 2	pA	$V_R = - 20\text{V}$	
Breakdown Reverse Voltage	BV_R	- 45			- 45			V	$I_R = - 1\ \mu\text{A}$	
Forward Voltage Drop	V_F		0.8	1.5		0.8	1.5	V	$I_F = 5\ \text{mA}$	
Capacitance	C_R			0.8			0.8	pF	$V_R = - 5\ \text{V}$	f = 1 MHz

At 25°C free air temperature:

Electrical Characteristics

		PAD5			Process NJ01		
		Min	Typ	Max	Unit	Test Conditions	
Reverse Current	I_R			- 5	pA	$V_R = - 20\text{V}$	
Breakdown Reverse Voltage	BV_R	- 45			V	$I_R = - 1\ \mu\text{A}$	
Forward Voltage Drop	V_F		0.8	1.5	V	$I_F = 5\ \text{mA}$	
Capacitance	C_R			0.8	pF	$V_R = - 5\ \text{V}$	f = 1 MHz

TO-18 Package

Dimensions in Inches (mm)

Pin Configuration

1 Cathode, 2 Case, 3 Anode

Surface Mount

TO-236AB Package

See Section G

Pin Configuration

1 Cathode, 2 Cathode, 3 Anode