

DPAD1, DPAD2, DPAD5, DPAD10

Dual 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 $+125^\circ\text{C}$

At 25°C free air temperature:

Electrical Characteristics

		DPAD1			DPAD2			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	$V_R = -5\ \text{V}$ $f = 1\ \text{MHz}$
Differential Capacitance	$ C_{R1} - C_{R2} $			0.2			0.2	pF	$V_{R1} = V_{R2} = -5\ \text{V}$ $f = 1\ \text{MHz}$

At 25°C free air temperature:

Electrical Characteristics

		DPAD5			DPAD10			Process NJ01	
		Min	Typ	Max	Min	Typ	Max	Unit	Test Conditions
Reverse Current	I_R			-5			-10	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			2.0	pF	$V_R = -5\ \text{V}$ $f = 1\ \text{MHz}$
Differential Capacitance	$ C_{R1} - C_{R2} $		0.2			0.2		pF	$V_{R1} = V_{R2} = -5\ \text{V}$ $f = 1\ \text{MHz}$

TO-72 Package
Dimensions in Inches (mm)
Pin Configuration
1 Cathode 1, 2 Anode 1,
3 Cathode 2, 4 Anode 2

