

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  $-55^{\circ}\text{C}$  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	$I_R = -1\text{ }\mu\text{A}$
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	$V_{R1} = V_{R2} = -5\text{ V}$ $f = 1\text{ MHz}$

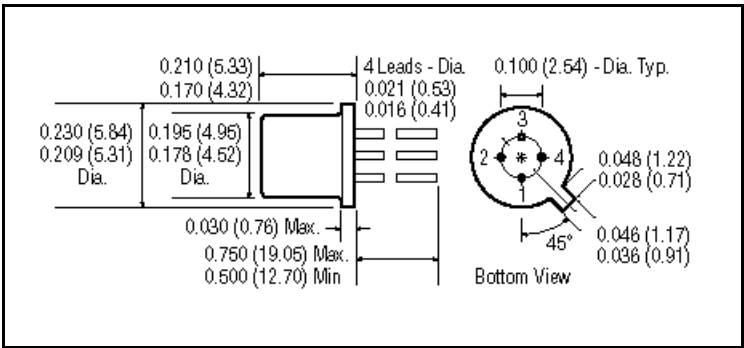
At 25°C free air temperature: Electrical Characteristics		DPAD5			DPAD10			Process NJ01	
		Min	Typ	Max	Min	Typ	Max	Unit	Test Conditions
Reverse Current	$I_R$			- 5			- 10	pA	$V_R = -20\text{V}$
Breakdown Reverse Voltage	$BV_R$	- 45			- 45			V	$I_R = -1\text{ }\mu\text{A}$
Forward Voltage Drop	$V_F$		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



# Mouser Electronics

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