

## DPAD5, DPAD10 Dual PicoAmp Diode

### Features

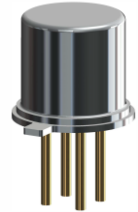
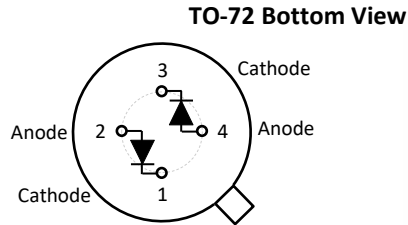
- InterFET [N0001H Geometry](#)
- Low Leakage
- Low Capacitance: 0.8pF Typical
- RoHS Compliant
- Custom Package Options Available

### Applications

- High Impedance Protection Circuits
- Low Power Battery Circuitry
- High Impedance Diode Switching

### Description

The -45V InterFET DPAD5 and DPAD10 are targeted for low power and high impedance applications. Leakages are typically 0.5pA at room temperatures. The DPAD series houses two parts per package. The TO-72 package is hermetically sealed and suitable for military applications.



### Product Summary

Parameters		DPAD5 Min	DPAD10 Min	Unit
BV <sub>R</sub>	Breakdown Reverse Voltage	-45	-45	V
I <sub>R</sub>	Reverse Current	-5 (Max)	-10 (Max)	pA
V <sub>F</sub>	Forward Voltage Drop	1.5 (Max)	1.5 (Max)	V

### Ordering Information Custom Part and Binning Options Available

Part Number	Description	Case	Packaging
DPAD5; DPAD10	Through-Hole	TO-72	Bulk



**Disclaimer:** It is the Buyers responsibility for designing, validating and testing the end application under all field use cases and extreme use conditions. Guaranteeing the application meets required standards, regulatory compliance, and all safety and security requirements is the responsibility of the Buyer. These resources are subject to change without notice.

## Electrical Characteristics

### Maximum Ratings (@ T<sub>A</sub> = 25°C, Unless otherwise specified)

Parameters	Value	Unit
V <sub>RGS</sub> Reverse Gate Source and Gate Drain Voltage		V
I <sub>FG</sub> Continuous Forward Gate Current	50	mA
P <sub>D</sub> Continuous Device Power Dissipation		mW
P Power Derating		mW/°C
T <sub>J</sub> Operating Junction Temperature	-55 to 125	°C
T <sub>STG</sub> Storage Temperature	-55 to 125	°C

### Static Characteristics (@ T<sub>A</sub> = 25°C, Unless otherwise specified)

Parameters	Conditions	DPAD5			DPAD10			Unit
		Min	Typ	Max	Min	Typ	Max	
BV <sub>R</sub> Breakdown Reverse Voltage	I <sub>R</sub> = -1μA	-45			-45			V
I <sub>R</sub> Reverse Current	V <sub>R</sub> = -20V			-5			-10	μA
V <sub>F</sub> Forward Voltage Drop	I <sub>F</sub> = 5mA		0.8	1.5		0.8	1.5	V
C <sub>R</sub> Capacitance	V <sub>R</sub> = -5V, f = 1MHz			0.8			0.8	pF
C <sub>R1</sub> - C <sub>R2</sub>   Differential Capacitance	V <sub>R1</sub> = V <sub>R2</sub> = -5V, f = 1MHz			0.2			0.2	pF



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