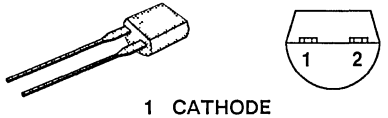
JPAD5 SERIES

Low-Leakage Pico-Amp Diodes

The JPAD5 Series of low-leakage diodes provides a superior alternative to conventional diode technology when reverse current (leakage) must be minimized. These devices feature leakage currents ranging from -5 pA (JPAD5) to -500 pA (JPAD500) to support varying system requirements. Its TO-92 package allows designers to maximize circuit performance while maintaining the objectives of low cost and compact packaging. Tape and reel is available for use with automated assembly techniques. (See Section 8.)

PART NO.	I_R (pA)
JPAD5	-5
JPAD10	-10
JPAD20	-20
JPAD50	-50
JPAD100	-100
JPAD200	-200
JPAD500	-500

TO-92 BOTTOM VIEW



1 CATHODE
2 ANODE

SIMILAR PRODUCTS

- SOT-23, See SSTPAD5 Series
- TO-18, See PAD1 Series
- Duals, See DPAD1 Series
- Chips, Order JPADXXCHP

4

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

PARAMETERS/TEST CONDITIONS	SYMBOL	LIMIT	UNITS
Forward Current	I_F	10	mA
Total Device Dissipation	P_D	360	mW
Storage Temperature	T_{stg}	-55 to 135	°C
Lead Temperature (1/16" from case for 10 seconds)	T_L	300	

ELECTRICAL CHARACTERISTICS [1]							
				LIMITS			
PARAMETER	SYMBOL	TEST CONDITIONS		TYP [2]	MIN	MAX	UNIT
STATIC							
Reverse Current	I_R	V_R = -20 V	JPAD5	-1		-5	pA
			JPAD10	-2		-10	
			JPAD20	-2		-20	
			JPAD50	-5		-50	
			JPAD100	-5		-100	
			JPAD200	-20		-200	
			JPAD500	-20		-500	
Reverse Breakdown Voltage	BV_R	I_R = -1 µA		-60	-35		V
Forward Voltage Drop	V_F	I_F = 5 mA		0.8		1.5	
DYNAMIC							
Reverse Capacitance	C_R	V_R = -5 V, f = 1 MHz		1.5		2	pF

NOTES: 1. T_A = 25 °C unless otherwise noted.
2. For design aid only, not subject to production testing.