



BAY73/BA129 *7-01-09*
 High Voltage Low
 Leakage Diodes

- BV... 125 V (MIN) @ 100 μ A (BAY73)
- BV... 200 V (MIN) @ 100 μ A (BA129)

PACKAGES	
BAY73	DO-35
BA129	DO-35

ABSOLUTE MAXIMUM RATINGS (Note 1)

Temperatures		
Storage Temperature Range		-65°C to +200°C
Maximum Junction Operating Temperature		+175°C
Lead Temperature		+260°C

Power Dissipation (Note 2)		
Maximum Total Power Dissipation at 25°C Ambient		500 mW
Linear Power Derating Factor (from 25°C)		3.33 mW/°C

Maximum Voltage and Currents			
WIV	Working Inverse Voltage	BAY73	100 V
		BA129	180 V
I_O	Average Rectified Current		200 mA
I_F	Continuous Forward Current		500 mA
i_f	Peak Repetitive Forward Current		600 mA
i_f (surge)	Peak Forward Surge Current		1.0 A
	Pulse Width = 1 s		4.0 A
	Pulse Width = 1 μ s		

ELECTRICAL CHARACTERISTICS (25°C Ambient Temperature unless otherwise noted)

SYMBOL	CHARACTERISTIC	BAY73		BA129		UNITS	TEST CONDITIONS
		MIN	MAX	MIN	MAX		
V _F	Forward Voltage	0.85	1.00			V	I _F = 200 mA
		0.81	0.94			V	I _F = 100 mA
		0.78	0.88	0.78	1.00	V	I _F = 50 mA
		0.69	0.80	0.69	0.83	V	I _F = 10 mA
		0.67	0.75			V	I _F = 5.0 mA
		0.60	0.68	0.60	0.71	V	I _F = 1.0 mA
		0.51	0.60	0.51	0.60	V	I _F = 0.1 mA
I _R	Reverse Current		500			nA	V _R = 20 V, T _A = 125°C
			5.0			nA	V _R = 100 V
			1.0			μ A	V _R = 100 V, T _A = 125°C
					10	nA	V _R = 180 V
					5.0	μ A	V _R = 180 V, T _A = 100°C
BV	Breakdown Voltage	125		200		V	I _R = 100 μ A
C	Capacitance		8.0		6.0	pf	V _R = 0, f = 1.0 MHz
t _{rr}	Reverse Recovery Time		3.0			μ s	I _F = 10 mA, V _R = 35 V R _L = 1.0 to 100 K Ω C _L = 10 pf, JAN 256

- NOTES:
 1. These ratings are limiting values above which the serviceability of the diode may be impaired.
 2. These are steady state limits. The factory should be consulted on applications involving pulses or low duty-cycle operation.
 3. For product family characteristic curves, refer to Chapter 4, D2

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