



BA217/BA218 T-01-09
General Purpose Diodes

- WIV... 10 V to 100 V
- t_{rr} ... 4ns (MAX) BA216-218

PACKAGES	
BA217	DO-35
BA218	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	BA218	50 V
		BA217	30 V
I_F	Continuous Forward Current		100 mA
I_f	Peak Repetitive Forward Current		300 mA
$I_f(\text{surge})$	Peak Forward Surge Current		400 mA
	Pulse Width = 1 s		1.0 A
	Pulse Width = 1 μ s		4.0 A

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

SYMBOL	CHARACTERISTIC	BA217 • BA218		UNITS	TEST CONDITIONS
		MIN	MAX		
V_F	Forward Voltage		1.50		$I_F = 100 \text{ mA}$ $I_F = 50 \text{ mA}$ $I_F = 15 \text{ mA}$ $I_F = 10 \text{ mA}$ $I_F = 3.0 \text{ mA}$ $I_F = 1.0 \text{ mA}$ $I_F = 0.2 \text{ mA}$
			1.00		
			0.70		
I_R	Reverse Current		50	nA	$V_R = 10 \text{ V}$
		BA217	50	nA	$V_R = 10 \text{ V}$
		BA218	200	nA	$V_R = 25 \text{ V}$
		BA217	200	nA	$V_R = 30 \text{ V}$
		BA218		nA	$V_R = 50 \text{ V}$
				nA	$V_R = 50 \text{ V}$
				nA	$V_R = 100 \text{ V}$
C	Capacitance		3.0	pF	$V_R = 0, f = 1 \text{ MHz}$
t_{rr}	Reverse Recovery Time		4.0	ns	$I_F = 10 \text{ mA}, I_R = 60 \text{ mA}$ $R_L = 100 \Omega$ (Note 3)
				ns	$I_F = 30 \text{ mA}, I_R = 30 \text{ mA}$ $R_L = 100 \Omega$ (Note 4)

- 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 pulsed or low duty-cycle operation.
 3. Recovery to $I_R = 1 \text{ mA}$.
 4. Recovery to $I_R = 3 \text{ mA}$.
 5. For product family characteristic curves, refer to Chapter 4, D4

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