RCH	ILD SEMICONDUCTOR	84 DE 3469674 0027285 8
	FAIRCHILD A Schlumberger Company	BA217/BA218 7-01-09 General Purpose Diodes
	• WIV 10 V to 100 V • frr4ns (MAX) BA216-218 ABSOLUTE MAXIMUM RATINGS (Note 1)	<b>PACKAGES</b> BA217 DO-35 BA218 DO-35
	<b>Temperatures</b> Storage Temperature Range Maximum Junction Operating Temperature Lead Temperature	−65°C to +200°C +175°C +260°C
-	Power Dissipation (Note 2) Maximum Total Power Dissipation at 25°C Ambient Linear Power Derating Factor (from 25°C)	500 mW 3.33 mW/°C.
	Maximum Voltage and Currents WIV Working Inverse Voltage	BA217 30 V
	IF Continuous Forward Current If Peak Repetitive Forward Current If(surge) Peak Forward Surge Current Pulse Width = 1 s	100 mA 300 mA 400 mA 1.0 A
	Pulse Width = 1 $\mu$ s	4.0 A

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

evue oi	CHARACTERISTIC	BA217 · BA218			
SYMBOL		MIN	MAX	UNITS	TEST CONDITIONS
VF	Forward Voltage				IF = 100 mA
			1.50		IF = 50 mA
					IF = 15 mA
			1.00		l⊨ = 10 mA
			•		IF = 3.0 mÅ
			0.70		iբ = 1.0 mA
					lF = 0.2 mA
łR	Reverse Current	-		nA	V <sub>B</sub> = 10 V ;
	BA217		50	nA	$V_{\rm B} = 10 V$
	BA218		50	nA	V <sub>B</sub> = 25 V
	BA217		200	nA	V <sub>R</sub> = 30 V
-	BA218		200	nA	V <sub>B</sub> = 50 V
				nA	$V_{\rm R} = 50 V$
				nA	VR = 100 V
C	Capacitance		3.0	pF	V <sub>R</sub> = 0, f = 1 MHz
t <sub>rr</sub>	Reverse Recovery Time		4.0	ns	$I_{\rm F} = 10  {\rm mA}, I_{\rm R} = 60  {\rm mA}$
:	•		1	· ·	RL = 100 Ω (Note 3)
				ns	IF = 30 mA, IR = 30 mA
	•				R <sub>L</sub> = 100 Ω (Note 4)

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NOTES: 1. These ratings are limiting values above which the servicesbility of the diode may be impaired. 2. These rate steady state limits. The factory should be consulted on applications involving pulsed or low duty-cycle operation. 3. Recovery to [n = 1 mA. 4. Recovery to [n = 2 mA. 5. For product family characteristic curves, refer to Chapter 4, D4

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