CA3000/...

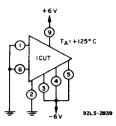
High-Reliability DC Amplifier

The CA3000 Slash (/) Series type is supplied in the 10-lead TO-5 style package.

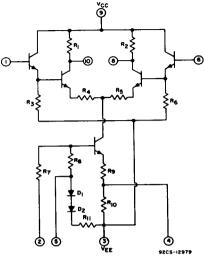
Characteristics		Test Conditions		Limits for Indicated Temp.(^O C)						
	Sym- bol	v+	= +6 V,	Minimum		Maximum			Units	
		V [.] = -6 V		-55	+25	+125	- 55	+25	+125	
STATIC										
Input Offset Voltage	v ₁₀	-		-	-	-	6.5	5	6.5	m∨
Input Offset Current	110	-		-	-	-	20	10	20	μA
Input Bias Current	կ	_		-	-	-	70	36	25	μA
Quiescent Operating	V ₈ or	Terminal 4	Terminal 5							
Voltage	v ₁₀	NC	NC	_ '	1.5	_	-	3.2	-	v
		Terminal 4	Terminal 5							
		NC	NC	30	25	20	60	60	50	m₩
Device Dissipation	Рт	NC	- VEE	25	20	15	55	55	50	mW
		· V _{EE}	NC	55	50	45	105	105	90	m₩
		۰۷ _{EE}	-V _{EE}	35	35	25	70	70	65	m₩
DYNAMIC										
Differential Voltage Gain	A _{Diff}		Single- Ended Output	-	28	-	-	-	-	dB
Maximum Output Voltage	V _{ОUТ} (р-р)			-	5	-	-	-	-	٧ _{p-F}
Bandwidth at -3 dB Point	BW			-	600	-	-	-	-	kHz
Common-Mode Rejection Ratio	CMR			-	70	-	-	-		dB
AGC Range (Maximum Volt- age Gain to Complete Cut- off)	AGC		<u></u> ,	-	80	-	-	-	-	dB

TABLE A. POST BURN-IN, FINAL ELECTRICAL AND GROUP A SAMPLING TESTS

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Burn-in and operating life test circuit



Schematic Diagram

TABLE B. DELTA LIMITS at $T_A = 2$	$25^{\circ}C, V^{\dagger} = +6V,$	$V^{-} = -6 V (/1 \text{ only})$
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CHARACTERISTIC	SYMBOL	TEST CONDITIONS	LIMITS MAX. A	UNITS	
Input Bias Current	4	-	±4		
Quiescent Operating Voltage	Vg or V10	Terminal 4: NC Terminal 5: NC	±0.3	v	
Device Dissipation	Рт	Terminal 4: NC Terminal 5: NC	±6	m₩	
Input Offset Current	١o	_	±2	μA	
Input Offset Voltage	VIO	_	±1	mV	

TABLE C. GROUPS C AND D END-POINT TESTS at $T_A = 25^{\circ}C$

		TEST CONDITIONS	Lin	Units	
Characteristic	Symbol	v ⁺ = +6 v, v ⁻ = -6 v	Min.	Max.	
Input Offset Voltage	VIO		_	5	mV
Input Offset Current	10		-	10	μΑ
Input Bias Current	4		-	36	μA
Quiescent Operating Voltage	V8 or V10		1.5	3.2	V
Device Dissipation	PT	Terminal 4 NC Terminal 5 NC	25	60	mW
Differential Voltage Gain Single-Ended Input	ADIFF	Single Ended Output f = 1 kHz	28	-	dB