

V P 2 0 1

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1. Structure: S I P - 9 p i n
2. Function: VIDEO-OUTPUT-AMP (CASCODE RESISTER-LOAD AMP)
3. Use: V/O amp for the ultra-high-resolution CRT display (20"~, fH $\geq$ 100kHz)
4. Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Condition	Rating	Unit
Maxmum supply voltage	VCC max		9.0	V
	VBB max		1.5	
Allowable power dissipation	PD	Tc = 25°C	3.0	W
Max junction temperature	TJ max		+150	°C
Max case temperature	Tc max		+100	
Storage temp	Tstg		-20 ~ +110	

5. Operating condition (Ta=25°C)

	Symbol	Condition	Rating	Unit
Recommended drive condition 1	1	VCC	7.0	V
		VBB	1.0	
Recommended drive condition 2	2	VCC	8.0	
		VBB	1.0	

6. Electrical characteristics (Ta=25°C) (perCH)

Parameter	Symbol	Condition	MIN	TYP	MAX	Unit
Feq band width (condition 1)	fc-1	VOUT=40V, CL=5pF		210		MHz
Feq band width (condition 2)	fc-2	VOUT=50V, CL=5pF		200		MHz
Voltage gain	Gp(DC)		12	14	16	
Current dissipation (condition 1)	ICC(1)	VIN(DC)=3.2V, f=10MHz(cl) CL=5pF, VOUT=40V		110		mA
	ICC(2)	VIN(DC)=3.2V, f=210MHz(cl) CL=5pF, VOUT=40V		150		
Current dissipation (condition 2)	ICC(1)	VIN(DC)=3.6V, f=10MHz(cl) CL=5pF, VOUT=50V		125		mA
	ICC(2)	VIN(DC)=3.6V, f=200MHz(cl) CL=5pF, VOUT=50V		180		

note) With emitter peaking

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