

VP201

JAN. 15, 1995  
SANYO Electric Co., Ltd  
Semiconductor Div

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"~,  $f_H \geq 100\text{kHz}$ )
4. Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Condition	Rating	Unit
Maximum supply voltage	VCC max		9.0	V
	VBB max		1.5	
Allowable power dissipation	PD	$T_c = 25^\circ\text{C}$	3.0	W
Max junction temperature	TJ max		+15.0	°C
Max case temperature	Tc max		+10.0	
Storage temp	Tstg		-20 ~ +110	

5. Operating condition ( $T_a = 25^\circ\text{C}$ )

	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 ( $T_a = 25^\circ\text{C}$ ) (perCH)

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

note) With emitter peaking

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