

■ Absolute Maximum Ratings (Ta= 25°C)

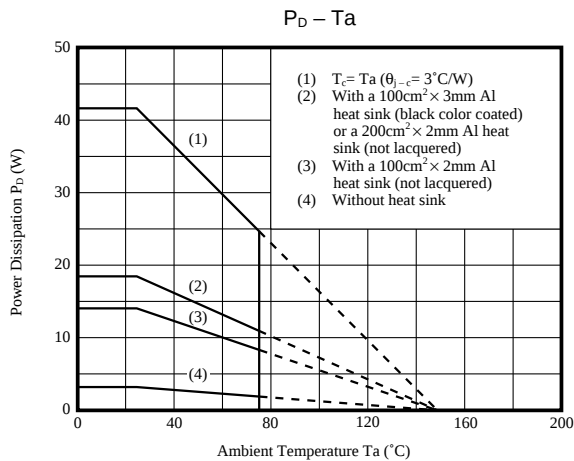
Parameter	Symbol	Rating	Unit
Supply Voltage	V_{CC}	24	V
Supply Current	I_{CC}	4	A
Power Dissipation ^{Note 1)}	P_D	41.7	W
Peak Supply Voltage ^{Note 2)}	$V_{CC} \text{ (surge)}$	50	V
Operating Ambient Temperature	T_{opr}	- 30 ~ + 75	°C
Storage Temperature	T_{stg}	- 55 ~ + 150	°C

Note 1) $R_{\theta j-c} = 3^{\circ}\text{C/W}$

Note 2) Voltage applied time = 0.2s

■ Electrical Characteristics ($V_{CC} = 13.2\text{V}$, $f = 1\text{kHz}$, $R_L = 4\Omega$, $T_a = 25^{\circ}\text{C}$)

Parameter	Symbol	Condition	min.	typ.	max.	Unit
Quiescent Circuit Current	I_{CQ}	$V_i = 0\text{mV}$	30	55	100	mA
Voltage Gain	G_V	$P_O = 0.5\text{W}$	52	54	56	dB
Total Harmonic Distortion	THD	$P_O = 0.5\text{W}$, $f = 1\text{kHz}$	—	0.1	0.5	%
		$P_O = 0.5\text{W}$, $f = 100\text{Hz}$	—	0.1	—	
		$P_O = 0.5\text{W}$, $f = 10\text{kHz}$	—	0.2	—	
Maximum Output	P_O	THD = 10%	5	5.7	—	W
		THD = 10%, $R_L = 2\Omega$	—	8.9	—	
		THD = 10%, $R_L = 8\Omega$	—	3.1	—	
Output Noise Voltage	V_{no}	$R_g = 10\text{k}\Omega$, 1000pF $f = 15\text{Hz} \sim 30\text{kHz}$, 12dB/OCT	—	0.8	1.5	mV
		$R_g = 10\text{k}\Omega$, 1000pF, Without Filter	—	1.1	—	
Channel Balance	CB	$P_O = 0.5\text{W}$	—	0	1	dB
Channel Separation	CS	$P_O = 0.5\text{W}$	40	50	—	dB
Ripple Rejection Ratio	RR	$P_O = 0.5\text{W}$, $R_g = 10\text{k}\Omega$, $V_{\text{ripple}} = 280\text{mVrms}$, $f_{\text{ripple}} = 12\text{Hz}$ Sine wave	35	45	—	dB
Offset Voltage	$V_O \text{ (offset)}$	$V_i = 0\text{mV}$	—	0	200	mV



■ Application Circuit

