



## D7231

## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic		Symbol	Value	Unit
Supply Voltage		Vcc	16	V
Total Power Dissipation	Tamb=50°C	PD	1.25	W
	Tamb=70°C		4	
Output Peak Current		Io	1	A
Storage and Junction Temperature		Tstg,Tj	-40~150	°C

## THERMAL DATA

Characteristic		Symbol	Value	Unit
Thermal Resistance Junction-ambient	max.	Rth j-amb	80	°C/W
Thermal Resistance Junction-pins	max.	Rth j-pins	15	°C/W

## ELECTRICAL CHARACTERISTICS

(Unless otherwise specified: Ta=25°C, Vcc=6V)

Characteristics	Symbol	Test conditions		Min	Typ	Max	Unit
Supply Voltage	Vcc			1.8		15	V
Quiescent Output Voltage	Vo	Vcc=6V			2.7		V
		Vcc=3V			1.2		
Quiescent Drain Current	Id				3.6	9	mA
Input Bias Current	Ib				100		nA
Output Sturation Voltage	Vsat1	Io=100mA				0.5	V
	Vsat2	Io=-100mA				1.0	
Distortion	THD	Po=0.2W, f=1kHz, RL=8Ω			0.3		%
Closed Loop Voltage Gain	Gv				38		dB
Input Resistance	Rin	f=1kHz		100			kΩ
Total Input Noise	eN	Rs=10kΩ	B=Curve A		2		μV
			B=22Hz~22kHz		3		
Supply Voltage Rejection	SVR	Rg=10kΩ, f=100Hz		24	30		dB

