

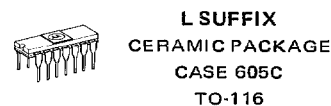
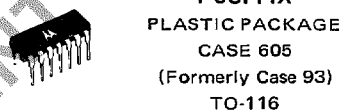
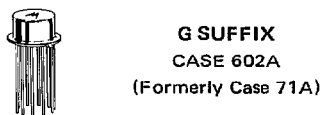
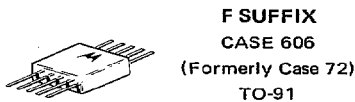
DUAL SENSE AMPLIFIERS

MC1711CF,G,L,P (0 to +75°C) MC1711F,G,L (-55 to +125°C)

... the MC1711 and MC1711C monolithic dual differential comparators are similar circuits specified over different temperature ranges. They are designed for use in level detection, low-level sensing, and memory applications.

Typical Characteristics:

- Differential Input
Input Offset Voltage = 1.0 mV
Offset Voltage Drift = 5.0 $\mu\text{V}/^\circ\text{C}$
- Fast Response Time — 40 ns
- Output Compatible with All Saturating Logic Forms — $V_{\text{out}} = +4.5 \text{ V to } -0.5 \text{ V}$ typical
- Low Output Impedance — 200 ohms



MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

RATING	SYMBOL	VALUE	UNIT
Power Supply Voltage	V+ V-	+14 -7.0	Vdc
Differential Input Signal	V _{in}	±5.0	Volts
Common Mode Input Swing	CMV _{in}	±7.0	Volts
Peak Load Current	I _L	50	mA
Power Dissipation (Package Limitation)	P _d		
Metal Can		680	mW
Derate above 25°C		4.6	mW/°C
Flat Package		500	mW
Derate above 25°C		3.3	mW/°C
Ceramic Dual In-Line Package		650	mW
Derate above 25°C		5.0	mW/°C
Plastic Package		400	mW
Derate above 25°C		3.3	mW/°C
Operating Temperature Range MC1711C MC1711	T _A	0 to +75 -55 to +125	°C
Storage Temperature Range G,F,&L Pkgs. P Pkg.	T _{stg}	-65 to +150 -65 to +125	°C

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

TYPE	V+ (Vdc)	V- (Vdc)	V _{io} (mV)	A _{vol} (V/V)	V _{OH} (Vdc)	V _{OL} (Vdc)	t _r (ns)	CMV _{in} (V _{PI})	TCV _{io} ($\mu\text{V}/^\circ\text{C}$)
MC1711	+12	-6.0	1.0	1500	3.2	-0.5	40	±5.0	5.0
MC1711C	+12	-6.0	1.0	1500	3.2	-0.5	40	±5.0	5.0

