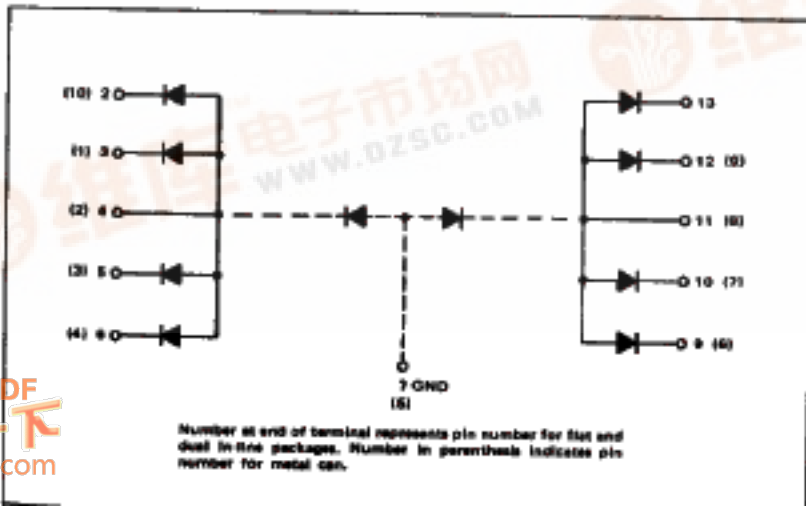
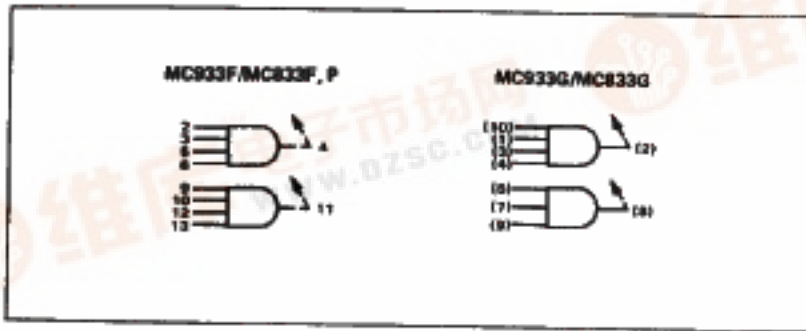
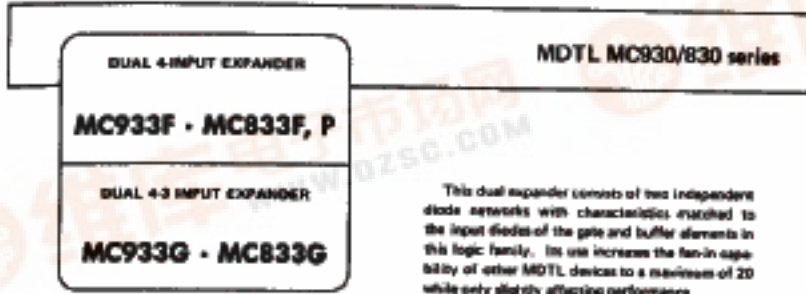


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ELECTRICAL CHARACTERISTICS

Test procedures are shown for only one expander.
The other expander is tested in the same manner.

NOTE: Although the test conditions and test limits are the same for devices in ALL available packages, the table shows pin connections for testing only the flat and dual in-line packaged devices. To test devices in the metal can, substitute pin numbers shown in the conversion table below.

PACKAGE	PIN NUMBER											
	-55°C		+25°C		+125°C		D°C		+75°C		+73°C	
Flat/Dual In-Line	3	4	5	6	7	8	10	11	12	13	-	-
Metal Can	10	1	2	3	4	5	6	7	8	9	-	-



Characteristic	Symbol	Pins Under Test	MC833 Test Limits						MC833 Test Limits						TEST CURRENT / VOLTAGE VALUES (All Temperatures)		TEST CURRENT / VOLTAGE APPLIED TO PINS LISTED BELOW:		Gnd		
			-55°C		+25°C		+125°C		D°C		+75°C		+73°C		mA	V _{IN}	I _{IN}	V _{IN}			
Propagated Voltage	V _{PD}	4	Min	Max	Min	Max	Min	Max	Unit	Min	Max	Min	Max	Min	Max	Unit	↑	-	-	-	2.7
			0.88	-	0.88	-	0.88	-	0.88	μVdc	0.80	-	0.82	-	0.75	μVdc					
Reverse Current	I _R	3	Min	Max	Min	Max	Min	Max	Unit	Min	Max	Min	Max	Min	Max	Unit	-	-	-	-	2.7
			2.0	-	2.0	-	2.0	-	2.0	μA _{dc}	3.0	-	3.0	-	3.0	μA _{dc}					
I _Y	5	6	Min	Max	Min	Max	Min	Max	Unit	Min	Max	Min	Max	Min	Max	Unit	-	-	-	-	2.7
			10	-	10	-	10	-	10	μA _{dc}	-	-	-	-	-	-					
I _L	4	4	Min	Max	Min	Max	Min	Max	Unit	Min	Max	Min	Max	Min	Max	Unit	-	-	-	-	2.7
			10	-	10	-	10	-	10	μA _{dc}	-	-	-	-	-	-					

Pins not listed are not open.

one of the following locations (see back cover for detailed information):

- A local Motorola distributor
- A Motorola semiconductor sales office
- A Motorola Literature Distribution Center
- The World Wide Web (WWW)

See the **Additional Support** section of the *DSP56300 Family Manual* for detailed information on the multiple support options available to you.

Table 1 DSP56301 Documentation

Name	Description	Order Number
DSP56300 Family Manual	Detailed description of the DSP56300 family processor core and instruction set	DSP56300FM/AD
DSP56301 User's Manual	Detailed functional description of the DSP56301 memory configuration, operation, and register programming	DSP56301UM/AD
DSP56301 Technical Data	DSP56301 features list and physical, electrical, timing, and package specifications	DSP56301/D