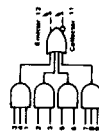


MC509, MC559/MC409, MC459 (continued)

ELECTRICAL CHARACTERISTICS		Pin Under Test		TEST CONDITIONS									
				TEST CURRENT / VOLTAGE APPLIED TO PINS LISTED BELOW:									
				TEST CURRENT / VOLTAGE APPLIED TO PINS LISTED BELOW:									
Characteristic	Symbol	Pin Under Test	Test	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Forward Current	I_F	1	1	-1.33	-	-1.33	-	-1.66	-	-1.66	-	-	-
Leakage Current	I_R	1	1	100	-	100	-	100	-	100	-	-	-
Inverse Beta Current	I_L	1	1	100	-	100	-	100	-	100	-	-	-
Breakdown Voltage	$BV_{in(0)}$	1	5.5	5.5	-	5.5	-	5.5	-	5.5	-	-	-
Breakdown Voltage	$BV_{in(1)}$	1	5.5	5.5	-	5.5	-	5.5	-	5.5	-	-	-
Output Voltage	V_{OH}	11	4.8	4.8	-	4.8	-	4.8	-	4.8	-	-	-
Output Voltage	V_{CE}	11	0.65	0.65	-	0.65	-	0.65	-	0.65	-	-	-
Leakage Current	I_{OLK}	11	250	250	-	250	-	250	-	250	-	-	-
Power Requirements (Total Device)	I_{max}	4	-	-	-	-	-	-	-	-	-	-	-
Maximum Power Supply Current	I_{PDH}	4	5.0	5.0	-	5.0	-	5.0	-	5.0	-	-	-
Power Supply Drain	I_{PDL}	4	6.0	6.0	-	6.0	-	6.0	-	6.0	-	-	-

ELECTRICAL CHARACTERISTICS

Test procedures are shown for only one input of the device. To complete testing, assume through remaining inputs in the same manner.



① Test Temperature

-55°C

+25°C

+75°C

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* Indicated applied to V_{CE} through 1.3 kΩ resistor.
 ** Indicated pin connected to V_{CC} through 1.0 kΩ resistor.
 † V_{CE} is referenced to the emitter voltage (Pin 12).